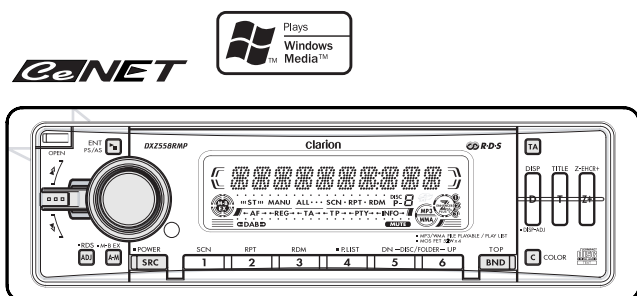


# Service Manual



CD/MP3/WMA Receiver / CeNET Control

Model ***DXZ558RMP***  
(PE-2721E-A)

## SPECIFICATIONS

### Radio section

Tuning system: PLL synthesizer tuner  
Receiving frequencies: FM 87.5 to 108MHz  
(0.05MHz steps)  
MW 531 to 1602kHz  
(9kHz steps)  
LW 153 to 279kHz  
(3kHz steps)

### CD player section

System: Compact disc digital audio system  
Frequency response: 5Hz to 20kHz(+1/-1dB)  
Signal to noise ratio: 100dB(1kHz)  
Dynamic range: 95dB(1kHz)  
Distortion: 0.01%



### MP3 / WMA mode

MP3 Sampling rate: 11.025kHz to 48kHz  
MP3 Bit rate: 8k to 320kbps/VBR  
WMA Bit rate: 48k to 192kbps  
Logical Format: ISO9660 level1, 2  
Romeo or Joliet

### General

Output power: 25Wx4 (DIN45324, +B=14.4V)  
Power supply voltage: 14.4V DC(10.8 to 15.6V allowable),  
negative ground  
Power consumption: Less than 15A  
Speaker impedance: 4ohm(4ohm to 8ohm allowable)  
Auto antenna rated current: 500mA or less  
Weight: Main unit 1.3kg  
Remote control unit  
40g(including battery)  
Dimensions(mm): Main unit  
178(W)x50(H)x157(D)mm  
Remote control unit  
44(W)x110(H)x11(D)mm

## NOTE

- \* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- \* Use only compact discs bearing the  or  mark. Some CDs recorded in CD-R/CD-RW mode may not be usable.
- \* Specifications and design are subject to change without notice for further improvement.
- \* Windows Media™, and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- \* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

## COMPONENTS

### PE-2721E-A

1. Main unit	_____	1
2. Mounting bracket	300-7742-00	1
3. DCP case	335-6035-20	1
4. Escutcheon(OUT-ES)	370-6150-00	1
5. Remote control unit	RCB-172-300	1
6. Battery(CR2025)	_____	1
7. Parts bag	_____	1
7-1 Removal key	331-2497-00	2
7-2 Rubber part	345-3653-20	1
7-3 A-lead	850-6681-50	1
7-4 Screw(M5x10)	716-0726-01	1

## To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots. If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.

If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement.

Recheck all work before you apply power to the unit.

### 8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

### 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit.

When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change.

Ensure that not foreign substances enter through the ventilation slots in the cover.

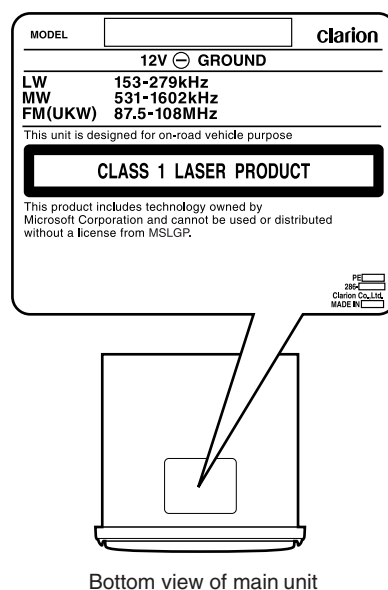
#### 9-3. Cleaning the lens

Dust on the optical lens affects performance.

To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## CAUTION

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". In case of any trouble with this player, please contact your nearest "authorized service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



## NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram.(Figure 1)

### ISO CONNECTOR type

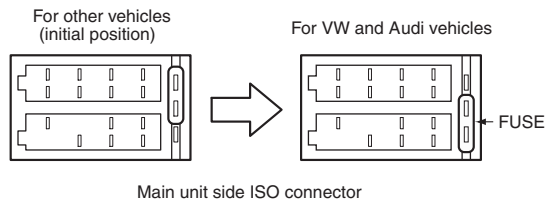


Figure 1

2. When the car stereo is installed in 1998 and later Volkswagen models, make sure to cut the car lead wire connected the A-5 terminal. (A breakdown could occur if the lead wire is not cut.) After cutting the lead wire, insulate the front end of the lead wire

with insulation tape to prevent the risk of short-circuits. (Figure 2)

Note: Before cutting the lead wire, disconnect the car battery - (negative) cable.

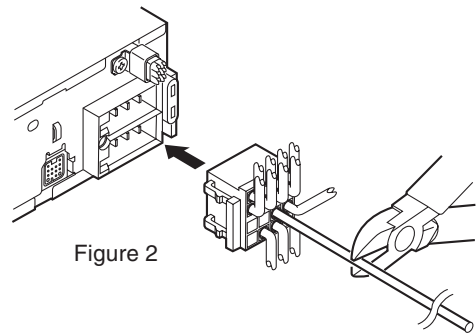


Figure 2

3. When the Main unit is also connected to an external amplifier, connect REMOTE on the external amplifier to remote turn on lead.

## ERROR DISPLAY

If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

Mode	Error Display	Cause	Measure
CD/MP3/WMA	ERROR 2	A DISC is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
DVD changer	ERROR 2	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped disc.
	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
	ERROR P	Parental level error.	Set the correct Parental level.
	ERROR R	Region code error.	Eject the disc and replace correct region code disc.

If an error display other than the ones described above appears, press the reset button.

## Performing a system check

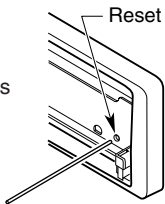
1. Press the [ADJ] button to switch to the adjustment selection display.
2. Press the [◀, ▶] lever upward or downward to select the "SYS CHK <E>".
3. Press and hold the [P] button for 1 second or longer. "SYSTEM CHK" appears in the display, then the unit returns to the previous operation mode.

## ANTI-THEFT INDICATOR

The red Anti-theft indicator is a function for preventing theft. When the DCP is removed from the unit, this indicator blinks.

1. Press the [ADJ] button to switch to the adjustment selection display.
2. Press the [◀, ▶] lever upward or downward to select the "BLINK LED".
3. Turn the [ROTARY] knob to select "ON" or "OFF".

## TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
		Incorrect wiring.	Read the attached "Installation/Wire connection Guide" once again and wire properly.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	<ol style="list-style-type: none"> <li>1. Turn the unit off.</li> <li>2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter.</li> <li>3. Turn the unit back on.</li> <li>4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).</li> </ol>
	Nothing happens when buttons are pressed.  Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the <b>[OPEN]</b> button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
		DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
	No sound heard.	The speaker protection circuit is operating.	Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates).
CD/MP3/WMA	No sound heard.	MP3/WMA files are absent in a disc.	Write MP3/WMA files onto the disc properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
		File system is not correct.	Use ISO9660 level 1,2 or Joliet or Romeo file system.
	Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
		Disc is heavily scratched or warped.	Replace with a disc with no scratches.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Play list play is not performed.	File name or extension is not correct.	Use alphanumeric/ASCII characters for MP3/WMA file name. Use ".M3U" for the file extension of a play list.

# ADJUSTMENT

## FM section

Item	Procedure	Measuring instrument
S-meter	1.Input the 98.1MHz/30dBu/400Hz(main90%+pilot10%)signal. 2.Turn on the power and press the A-M button & PRESET No.6 button at the same time for 1 second or longer.(TEST MODE) 3.Adjust the reading of LCD display to [24---- ○○](24+2/-2) by VR101. 4.Push the A-M button & PRESET No.6 button at the same time for 1 second or longer once again or do power off to cancel the TEST MODE.	SG

## EXPLANATION OF IC:

### Main section

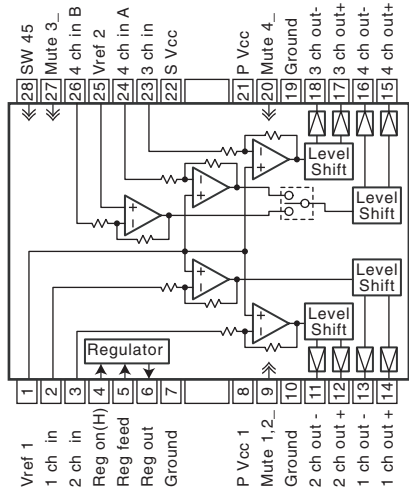
052-3947-00 M30622MGP-178GP Main System controller

#### 1.Terminal Description

pin 1 : EJECT_LED : O : Eject key illumination.	pin 54 : NU : IN : Not in use(GND).
pin 2 : TIME_BASE : IN : Time base pulse input.	pin 55 : NU : IN : Not in use(GND).
pin 3 : NU : IN : Not in use(GND).	pin 56 : NU : IN : Not in use(GND).
pin 4 : NU : IN : Not in use(GND).	pin 57 : NU : IN : Not in use(GND).
pin 5 : REMOCON : IN : Remote controller signal input terminal.	pin 58 : NU : IN : Not in use(GND).
pin 6 : BYTE : IN : The data length selection(8bit/16bit).	pin 59 : T BASE-TEST : O : Time base confirmation pin for test mode.
pin 7 : CN VSS : IN : Connect to VSS.	pin 60 : VDD : - : Positive supply voltage.
pin 8 : JOG_CW : IN : Jog key signal input.	pin 61 : NU : IN : Not in use(GND).
pin 9 : JOG_CCW : IN : Jog key signal input.	pin 62 : GND : - : Ground
pin 10 : RESET : IN : Reset signal input.	pin 63 : NU : IN : Not in use(GND).
pin 11 : X-OUT : O : Crystal connection.	pin 64 : NU : IN : Not in use(GND).
pin 12 : GND : - : Negative supply voltage(Ground).	pin 65 : ST/SD : IN : At receiving the FM station, this port detects the stereo signal. At seeking or scanning, this port detects the station detection signal.
pin 13 : X-IN : IN : Crystal connection.	pin 66 : NOISE DCHG : O : RDS noise discharge signal output.
pin 14 : VCC : - : Positive supply voltage.	pin 67 : MUTE SPD UP : O : Station detection speed up command output for RDS.
pin 15 : NU : IN : Not in use.	pin 68 : RDS TEST ST : O : For RDS test pin at CD play time.
pin 16 : ACC_DET : IN : ACC detection signal input.	pin 69 : RDS_MUTE : O : RDS mute signal output.
pin 17 : B/U_DET : IN : Backup detection signal input.	pin 70 : RDS_DATA : IN : RDS serial data input.
pin 18 : KEY_INT : IN : Key interrupting signal input.	pin 71 : NU : IN : Not in use(GND).
pin 19 : 27pin connect : IN : Connect to 27pin.	pin 72 : SOFT MUTE : O : Not in use.
pin 20 : VARI +B : O : The power supply control signal output for the illumination.	pin 73 : RDS CLK : IN : RDS CLK
pin 21 : LCD +B REM : O : The power supply ON signal output for the LCD driver.	pin 74 : E VOL CLK : O : Clock pulse output to the volume IC.
pin 22 : NU : O : Not in use.	pin 75 : E VOL DATA : O : The serial data output to the volume IC.
pin 23 : INT-AMP REM : O : ON signal output to the internal amplifier.	pin 76 : NU : IN : Not in use(GND).
pin 24 : V COLOR G : O : PWM signal output to control the green.	pin 77 : NU : IN : Not in use(GND).
pin 25 : CATS LED : O : CATS LED drive output.	pin 78 : AMP MUTE : O : The control signal output to internal audio power amplifier.
pin 26 : V COLOR R : O : PWM signal output to control the red.	pin 79 : NU : O : Not in use.
pin 27 : IE BUS RX : IN : IE Bus serial data input.	pin 80 : SYS MUTE : O : System muting signal output.
pin 28 : IE BUS TX : O : IE Bus serial data output.	pin 81 : PHONE INT : IN : The telephone interrupt signal input.
pin 29 : EMULATOR TX : O : Emulator signal output.	pin 82 : ILLUMI DET : IN : Illumination ON signal input.
pin 30 : EMULATOR RX : IN : Emulator signal input.	pin 83 : NU : IN : Not in use(GND).
pin 31 : FLASH MODE : IN : The flash memory mode setting input.	pin 84 : AMP REMOUT : O : ON signal output to the internal amplifier.
pin 32 : NU : O : Not in use.	pin 85 : NU : O : Not in use.
pin 33 : LCD SO : O : The serial data input from the LCD driver.	pin 86 : 5V_REM : O : ON signal output to the 5V power supply.
pin 34 : LCD SI : IN : The serial data output from the LCD driver.	pin 87 : NOISE : IN : The noise level for RDS.
pin 35 : LCD CLK : O : The clock pulse output to the LCD driver.	pin 88 : S_METER : IN : The input terminal of internal A/D converter to monitor the radio field strength.
pin 36 : LCD CE : O : Chip select signal output to the LCD driver.	pin 89 : KEY_A/D : IN : The input terminal of the internal ADC for key judgment.
pin 37 : NU : IN : Not in use.	pin 90 : NU : O : Not in use.
pin 38 : CTRL : O : Power supply ON signal output.	pin 91 : KEY ILLUMI : O : The key illumination ON signal output.
pin 39 : FLASH MODE : IN : Flash mode entry signal input terminal.	pin 92 : BACK LIGHT ON : O : LCD backlight control terminal.
pin 40 : MP3 SRQ : IN : MP3 request signal input.	pin 93 : SYS_ACC : O : ACC detect signal output.
pin 41 : MP3 CS : O : MP3 chip selection signal output.	pin 94 : GND : - : Not in use.
pin 42 : WUP : O : MP3 wakeup signal output.	pin 95 : NU : IN : Not in use.
pin 43 : MP3 RESET : O : MP3 reset signal output.	pin 96 : VREF : IN : The reference voltage input.
pin 44 : FLASH MODE : IN : Flash mode entry signal input terminal.	pin 97 : A VDD : - : Positive supply voltage for the internal analog section.
pin 45 : PLL SI : IN : Serial data input from the PLL IC.	pin 98 : MP3 SI : IN : MP3 serial data input.
pin 46 : PLL SO : O : Serial data output to the PLL IC.	pin 99 : MP3 SO : O : MP3 serial data output.
pin 47 : PLL SCK : O : The clock pulse output to the PLL IC.	pin 100 : MP3 SCK : O : MP3 clock output.
pin 48 : PLL CE : O : The chip enable signal output to the PLL IC.	
pin 49 : NU : IN : Not in use.	
pin 50 : RDS TEST : IN : For RDS test pin at CD play time.	
pin 51 : INIT 2 : IN : The initial setting input.	
pin 52 : INIT 1 : IN : The initial setting input.	
pin 53 : NU : IN : Not in use(GND).	

CD mechanism section: 929-0301-83

051-6069-08 FAN8047G3 4 channel Motor Driver



Function Table

SW45 in (pin 28)	Mute1,2_ in (pin 9)	Mute 3_ in (pin 27)	Mute 4_ in (pin 20)	1 ch out (pin13,14)	2 ch out (pin11,12)	3 ch out (pin17,18)	4 ch out (pin15,16)
H	H	H	x	ON	ON	ON	ON A
H	H	L	x	ON	ON	OFF	ON A
H	L	H	x	OFF	OFF	ON	OFF
H	L	L	x	OFF	OFF	OFF	OFF
L	x	x	H	OFF	OFF	OFF	ON B
L	x	x	L	OFF	OFF	OFF	OFF

051-6399-00 TC94A15F CD IC

1.Terminal Description

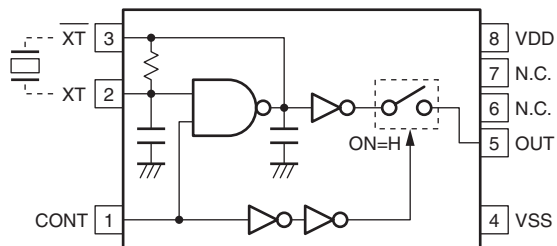
pin 1: IPF OUT	: O : IP flag output.
pin 2: SB OK O	: O : Sub code Q data CRCC OK signal output.
pin 3: CLOCKIO	: I/O: The clock pulse input/output for the sub code reading.
pin 4: VDD	: - : Positive supply voltage.
pin 5: VSS	: - : Negative supply voltage.
pin 6: DATA	: O : DATA
pin 7: SF SY O	: O : Playback frame synchronous signal output.
pin 8: SB SY O	: O : Sub code block synchronous signal output.
pin 9: HSO	: O : The play speed flag output.
pin 10: UHSO	: O : The play speed flag output.
pin 11: AR SEL IN	: IN: Fix to the high level.
pin 12: AWRC	: O : The control signal output for the active wide range VCO.
pin 13: P VDD	: - : PLL positive supply voltage.
pin 14: PDO	: O : Phase difference signal output of EFM-PLCK.
pin 15: TMAX S	: O : T max judgment output.
pin 16: TMAX	: O : T max judgment output.
pin 17: LPF N	: IN: Inverted input of LPF for PLL.
pin 18: LPF OUT	: O : The output terminal for the Low Pass Filter.
pin 19: P Vref	: - : PLL reference voltage.
pin 20: VCO FILTER	: O : Loop filter for VCO.
pin 21: VCO Ref	: IN: VCO reference voltage input.
pin 22: DTC N	: O : For the analog slicer.
pin 23: DTC P	: O : For the analog slicer.
pin 24: PLL VSS	: - : PLL ground.
pin 25: SLCO	: O : Output of internal DAC for data slice level generation.
pin 26: RF IN	: IN: RF signal input.
pin 27: RF RP	: IN: RF ripple input.
pin 28: RF EQ OUT	: O : The output of the RF equalizer.
pin 29: A VDD	: - : Positive supply voltage for the Analog section.
pin 30: RES IN	: - : For reference current setting.
pin 31: Vref OUT	: O : The reference voltage output.
pin 32: VMDIR	: O : The reference voltage output.

pin 33: TESTR	: O : The compensation terminal for RFEQO off-set.
pin 34: INVSEL	: IN: MDI polarity selection.
pin 35: AGCI	: IN: The input terminal of RF AGC amplifier.
pin 36: RF DCI	: IN: The input terminal for RF peak detection.
pin 37: RF OUT	: O : RF signal output.
pin 38: PN SEL	: IN: The transistor type selection input for laser diode driver. L=NPN, H=PNP.
pin 39: EQ SET	: O : The equalizer setting terminal.
pin 40: RF VDD	: - : RF power supply.
pin 41: LDO	: O : The laser diode drive output.
pin 42: MDI	: IN: Monitor photo diode signal input.
pin 43: RF VSS	: - : RF ground.
pin 44: FNI 2	: IN: Main beam signal input.
pin 45: FNI 1	: IN: Main beam signal input.
pin 46: FPI 2	: IN: Main beam signal input.
pin 47: FPI 1	: IN: Main beam signal input.
pin 48: TPI	: IN: Sub beam signal input.
pin 49: TNI	: IN: Sub beam signal input.
pin 50: FTEO	: O : For test.
pin 51: RF ZI	: IN: RF ripple zero cross signal input.
pin 52: A VSS	: - : Analog ground.
pin 53: RF RP	: O : RF ripple signal output.
pin 54: RF DC	: O : RF peak detection signal output. (hologram suitable)
pin 55: FEI	: O : Focus error signal output.
pin 56: SBAD	: O : Sub beam add signal output.
pin 57: TEI	: O : Tracking error signal output.
pin 58: TE Z IN	: IN: Tracking error signal input for zero cross.
pin 59: A VDD	: - : Positive supply voltage for the Analog section.
pin 60: FOO	: O : Focus equalizer output.
pin 61: TRO	: O : Tracking equalizer output.
pin 62: Vref	: O : Reference voltage output.
pin 63: FMO	: O : Field equalizer output / Speed error output.
pin 64: DMO	: O : Disk equalizer output.
pin 65: IO2A	: I/O: General input/output.
pin 66: IO3A	: I/O: General input/output.
pin 67: MONIT	: O : Internal DSP signal monitor.
pin 68: FG IN	: IN: FG input for the spindle CAV servo.
pin 69: VSS	: - : Negative supply voltage.
pin 70: VDD	: - : Positive supply voltage.
pin 71: TESIN	: IN: For test.
pin 72: X VSS	: - : Master clock analog ground.
pin 73: X IN	: IN: Crystal connection.
pin 74: X O	: O : Crystal connection.
pin 75: X VDD	: - : Clock power supply.
pin 76: D VSS	: - : Digital ground.
pin 77: RO	: O : Right channel data output for 1-bit DAC.
pin 78: D VDD	: - : Positive supply voltage for the digital section.
pin 79: D Vref	: O : Digital reference voltage.
pin 80: LO	: O : Left channel data output for 1-bit DAC.
pin 81: D VSS	: - : Digital ground.
pin 82: Z DET O	: O : 1bit DAC zero flag output.
pin 83: VSS	: - : Negative supply voltage.
pin 84: BUS 0	: I/O: CD IC Data input / output.
pin 85: BUS 1	: I/O: CD IC Data input / output.
pin 86: BUS 2	: I/O: CD IC Data input / output.
pin 87: BUS 3	: I/O: CD IC Data input / output.
pin 88: BU CK IN	: IN: CD IC Data clock input.
pin 89: CCEI	: IN: Chip enable input.
pin 90: RSTI	: IN: Reset signal input.
pin 91: VDD	: - : Positive supply voltage.
pin 92: EMPHI/FAO	: I/O: Emphasis input for 1-bit DAC / Flag A output.
pin 93: BCKI/FBO	: I/O: Bit clock input for 1-bit DAC / Flag B output.
pin 94: AIN/FCO	: I/O: Audio input for 1-bit DAC / Flag C output.
pin 95: LRCKI/FDO	: I/O: LR clock input for 1-bit DAC / Flag D output.
pin 96: EMPHO	: O : Emphasis flag output. H=Emphasis ON.
pin 97: B CK O	: O : Bit clock output.
pin 98: A OUT	: O : Audio signal output.
pin 99: LR CK O	: O : LR clock output.
pin100: D OUT	: O : Serial data output.

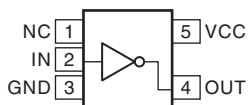
## 1. Terminal Description

pin 1: VSS	: - : Negative supply voltage.	pin 66: C BMOV	: IN : Buffer memory over flag input from CD IC.
pin 2: Memo Addrss 22: O	: Control signal output for Memory IC.	pin 67: SCK	: IN : The clock pulse input.
pin 3: VSS	: - : Negative supply voltage.	pin 68: VDD	: IN : Positive supply voltage.
pin 4: VDD	: - : Positive supply voltage.	pin 69: C BUS 1	: I/O: Data bus for CD IC.
pin 5: Memo Addrss 10: O	: Address output to Memory IC.	pin 70: VSS	: - : Negative supply voltage.
pin 6: C RESET	: O : Reset pulse output to CD IC.	pin 71: LIMIT	: IN : Inside limit switch signal input for the pickup.
pin 7: Memo Addrss 11: O	: Address output to Memory IC.	pin 72: VSS	: - : Negative supply voltage.
pin 8: Memo Addrss 12: O	: Address output to Memory IC.	pin 73: C PF/ CHUCK	: IN : C2 correction data input from CD IC. Or chucking signal input from the mechanism.
pin 9: Memo Addrss 13: O	: Address output to Memory IC.	pin 74: LD MUTE	: IN : Muting signal output to the CD mechanism.
pin 10: Memo Addrss 14: O	: Address output to Memory IC.	pin 75: VDD	: - : Positive supply voltage.
pin 11: Memo Addrss 15: O	: Address output to Memory IC.	pin 76: VSS	: - : Negative supply voltage.
pin 12: VDD	: - : Positive supply voltage.	pin 77: Clock Mode 1	: IN : Clock mode selection.
pin 13: NU	: IN: Not in use.	pin 78: Clock Mode 2	: IN : Clock mode selection.
pin 14: VSS	: - : Negative supply voltage.	pin 79: Clock Mode 3	: IN : Clock mode selection.
pin 15: VSS	: - : Negative supply voltage.	pin 80: NU	: IN : Not in use.
pin 16: VDD	: - : Positive supply voltage.	pin 81: C BUS 2	: I/O: Data bus for CD IC.
pin 17: NU	: IN: Not in use.	pin 82: NU	: O : Not in use.
pin 18: NU	: IN: Not in use.	pin 83: NU	: IN : Not in use.
pin 19: READY	: IN: The ready signal input.	pin 84: NU	: O : Not in use.
pin 20: PS	: O : Control signal output for Memory IC.	pin 85: NU	: O : Not in use.
pin 21: NU	: O : Not in use.	pin 86: NU	: IN : Not in use.
pin 22: NU	: O : Not in use.	pin 87: NU	: IN : Not in use.
pin 23: WRITE ENBL	: O : The write enable signal output.	pin 88: NU	: IN : Not in use.
pin 24: M STRB	: O : Control signal output for Memory IC.	pin 89: NU	: IN : Not in use.
pin 25: NU	: O : Not in use.	pin 90: VSS	: - : Negative supply voltage.
pin 26: NU	: O : Not in use.	pin 91: VDD	: - : Positive supply voltage.
pin 27: LD CONT	: O : The loading control signal output.	pin 92: NU	: IN : Not in use.
pin 28: NU	: O : Not in use.	pin 93: VSS	: - : Negative supply voltage.
pin 29: NU	: O : Not in use.	pin 94: CLK OUT	: O : Clock pulse output.
pin 30: NU	: IN: Not in use.	pin 95: C BUS 3	: I/O: Data bus for CD IC.
pin 31: CS	: IN: The chip select command input.	pin 96: NU	: O : Not in use.
pin 32: NU	: - : Not in use.	pin 97: SYS CLK	: IN : 16.92MHz
pin 33: VDD	: - : Positive supply voltage.	pin 98: RESET	: IN : Reset signal input.
pin 34: VSS	: - : Negative supply voltage.	pin 99: Memo Data 0	: I/O: Parallel data input/output for Memory IC.
pin 35: V BUS WUP	: IN: V BUS WUP input.	pin100: Memo Data 1	: I/O: Parallel data input/output for Memory IC.
pin 36: C BUS CE/TRB	: I/O: Data bus chip enable signal output to CD IC. Or mechanism sensor signal input.	pin101: Memo Data 2	: I/O: Parallel data input/output for Memory IC.
pin 37: VSS	: - : Negative supply voltage.	pin102: Memo Data 3	: I/O: Parallel data input/output for Memory IC.
pin 38: C BUS CK/TRB	: I/O: Data bus clock pulse output to CD IC. Or mechanism sensor signal input.	pin103: Memo Data 4	: I/O: Parallel data input/output for Memory IC.
pin 39: NU	: IN: Not in use.	pin104: Memo Data 5	: I/O: Parallel data input/output for Memory IC.
pin 40: VSS	: - : Negative supply voltage.	pin105: Memo Addrss 16: O	: Address output to Memory IC.
pin 41: C BCK	: IN: Bit clock pulse input from CD IC.	pin106: VSS	: - : Negative supply voltage.
pin 42: NU	: O : Not in use.	pin107: Memo Addrss 17: O	: Address output to Memory IC.
pin 43: C LRCK	: IN: LR clock pulse input from CD IC.	pin108: Memo Addrss 18: O	: Address output to Memory IC.
pin 44: NU	: O : Not in use.	pin109: Memo Addrss 19: O	: Address output to Memory IC.
pin 45: C SD	: IN: Serial data input from CD IC.	pin110: Memo Addrss 20: O	: Address output to Memory IC.
pin 46: NU	: IN: Not in use.	pin111: VSS	: - : Negative supply voltage.
pin 47: MS SI	: IN: Serial data input from Master Computer.	pin112: VDD	: - : Positive supply voltage.
pin 48: C DAC BCK	: O : Bit clock output for the internal DAC of CD IC.	pin113: Memo Data 6	: I/O: Parallel data input/output for Memory IC.
pin 49: MS SCK	: IN: Serial clock input from Master Computer.	pin114: Memo Data 7	: I/O: Parallel data input/output for Memory IC.
pin 50: VSS	: - : Negative supply voltage.	pin115: Memo Data 8	: I/O: Parallel data input/output for Memory IC.
pin 51: NU	: O : Not in use.	pin116: Memo Data 9	: I/O: Parallel data input/output for Memory IC.
pin 52: VDD	: - : Positive supply voltage.	pin117: Memo Data 10	: I/O: Parallel data input/output for Memory IC.
pin 53: C DAC LRCK	: O : LR clock output for the internal DAC of CD IC.	pin118: Memo Data 11	: I/O: Parallel data input/output for Memory IC.
pin 54: MS CS	: IN: Chip select input from Master Computer.	pin119: Memo Data 12	: I/O: Parallel data input/output for Memory IC.
pin 55: NU	: O : Not in use.	pin120: CN VCC	: IN : Connect to VCC.
pin 56: VDD	: - : Positive supply voltage.	pin121: Memo Data 13	: I/O: Parallel data input/output for Memory IC.
pin 57: VSS	: - : Negative supply voltage.	pin122: Memo Data 14	: I/O: Parallel data input/output for Memory IC.
pin 58: C BUS 0	: I/O: Data bus for CD IC.	pin123: Memo Data 15	: I/O: Parallel data input/output for Memory IC.
pin 59: C DAC SD	: O : Serial data output for the internal DAC of CD IC.	pin124: SRQ	: O : V BUS SRQ output.
pin 60: MS SO	: O : Serial data output to Master Computer.	pin125: VDD	: - : Positive supply voltage.
pin 61: NU	: O : Not in use.	pin126: VSS	: - : Negative supply voltage.
pin 62: NU	: IN: Not in use.	pin127: NU	: IN : Not in use.
pin 63: NU	: IN: Not in use.	pin128: VSS	: - : Negative supply voltage.
pin 64: WUP	: IN: V BUS WUP.	pin129: NU	: IN : Not in use.
pin 65: SBSY	: IN: Sub code block synchronous signal detection input.	pin130: VDD	: - : Positive supply voltage.
		pin131: Memo Addrss 0	: O : Address output to Memory IC.
		pin132: Memo Addrss 1	: O : Address output to Memory IC.
		pin133: Memo Addrss 2	: O : Address output to Memory IC.
		pin134: Memo Addrss 3	: O : Address output to Memory IC.
		pin135: SYS POWER	: O : System power supply control signal output.
		pin136: Memo Addrss 4	: O : Address output to Memory IC.
		pin137: Memo Addrss 5	: O : Address output to Memory IC.
		pin138: Memo Addrss 6	: O : Address output to Memory IC.
		pin139: Memo Addrss 7	: O : Address output to Memory IC.

051-6919-08 NJU6391PE Quarts Crystal Oscillator

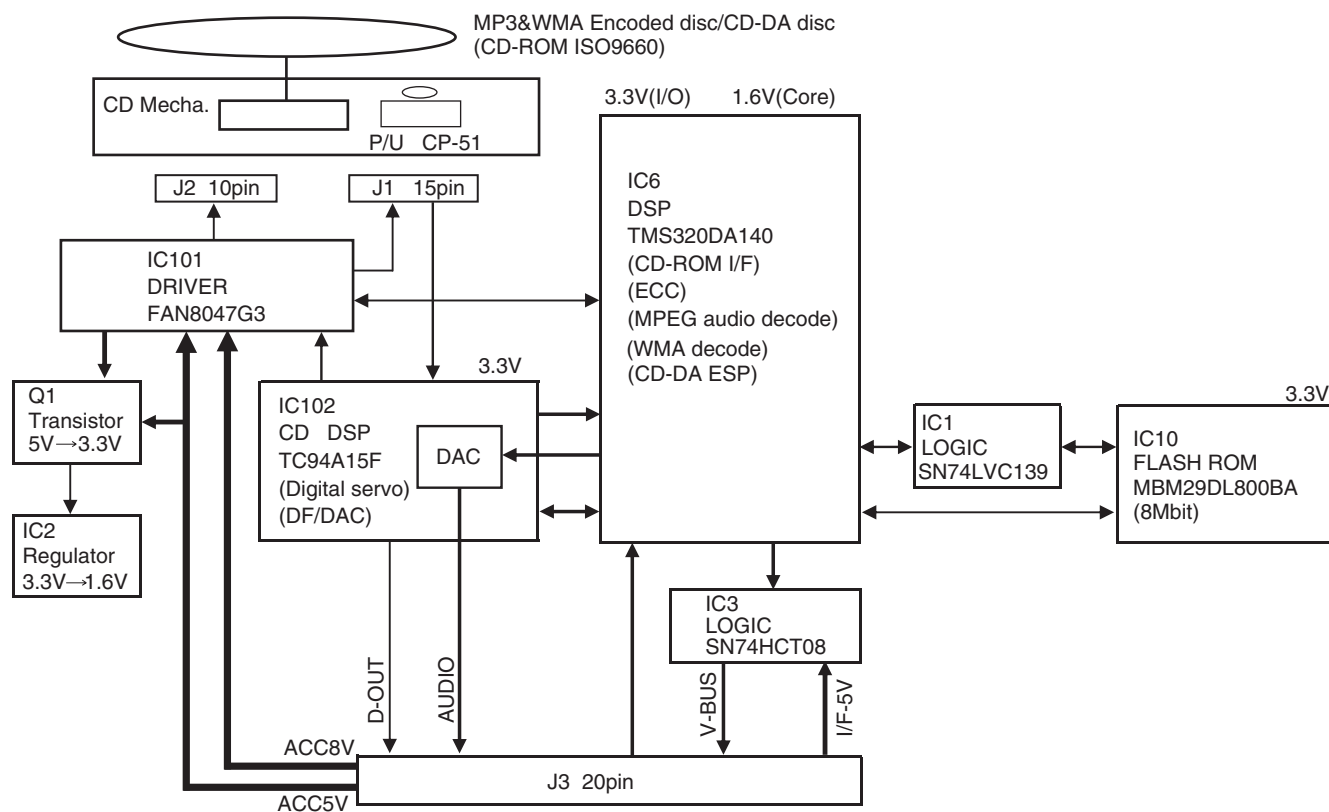


051-7280-38 TC7SU04FU Single Inverter



Truth Table			Y 0	Y 1	Y 2	Y 3
G	B	A				
H	don't care	don't care	H	H	H	H
L	L	L	L	H	H	H
L	L	H	H	L	H	H
L	H	L	H	H	L	H
L	H	H	H	H	H	L

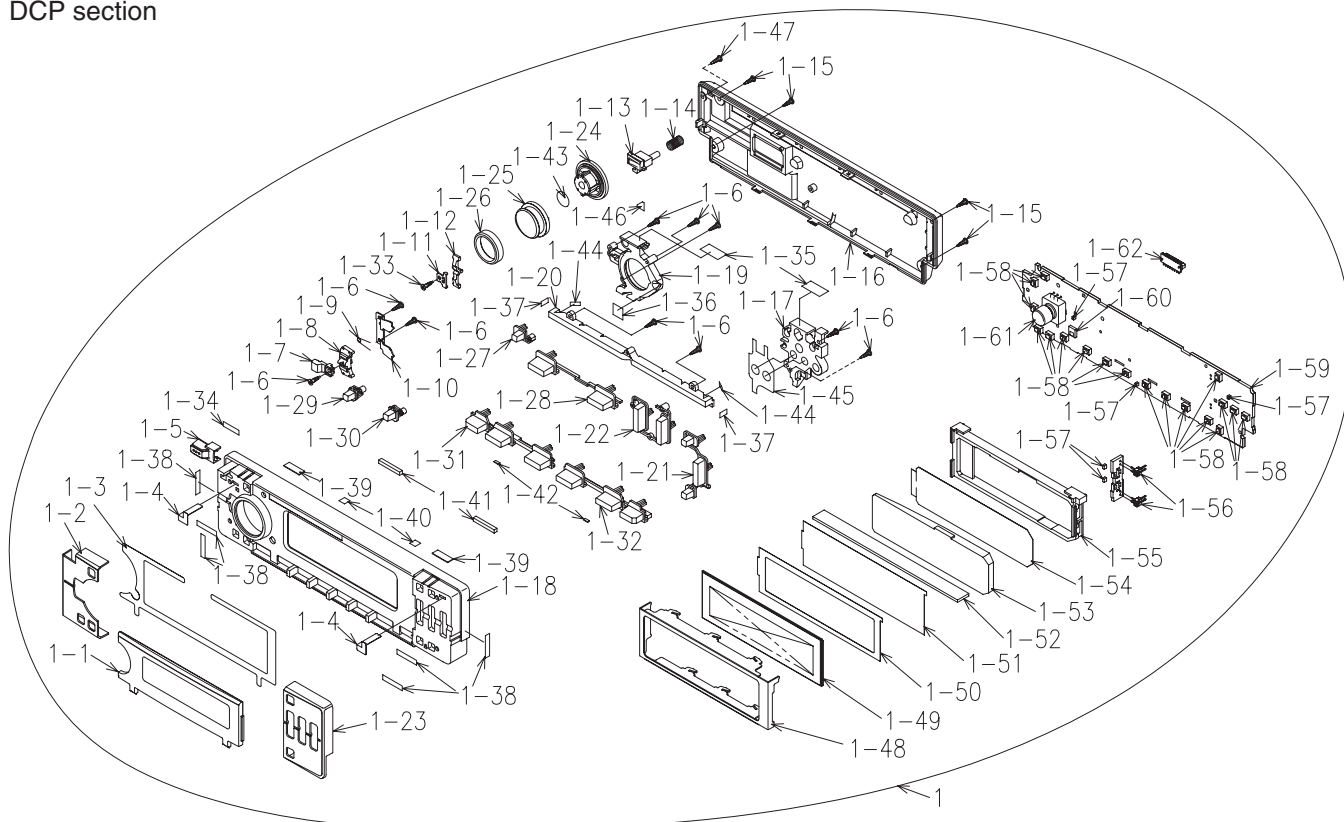
## CD mechanism section: 929-0301-83





# EXPLODED VIEW / PARTS LIST

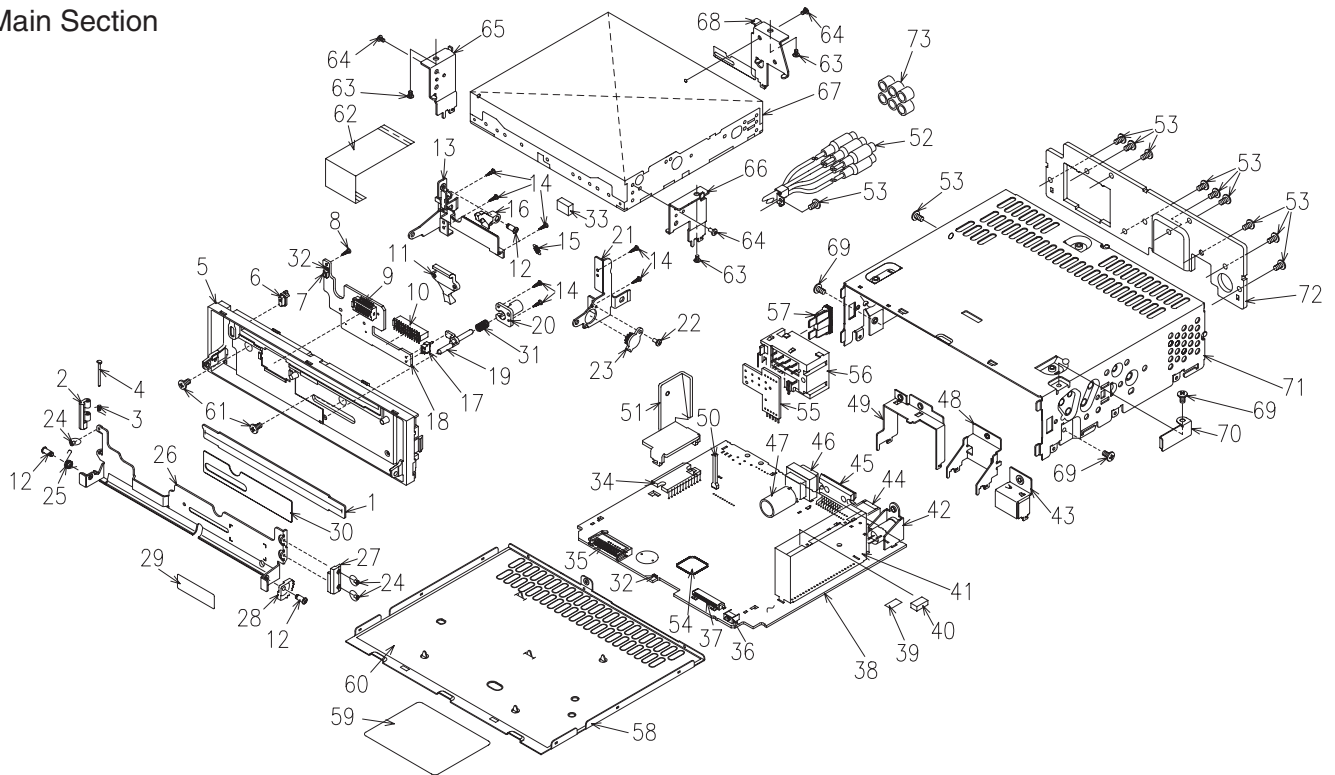
DCP section



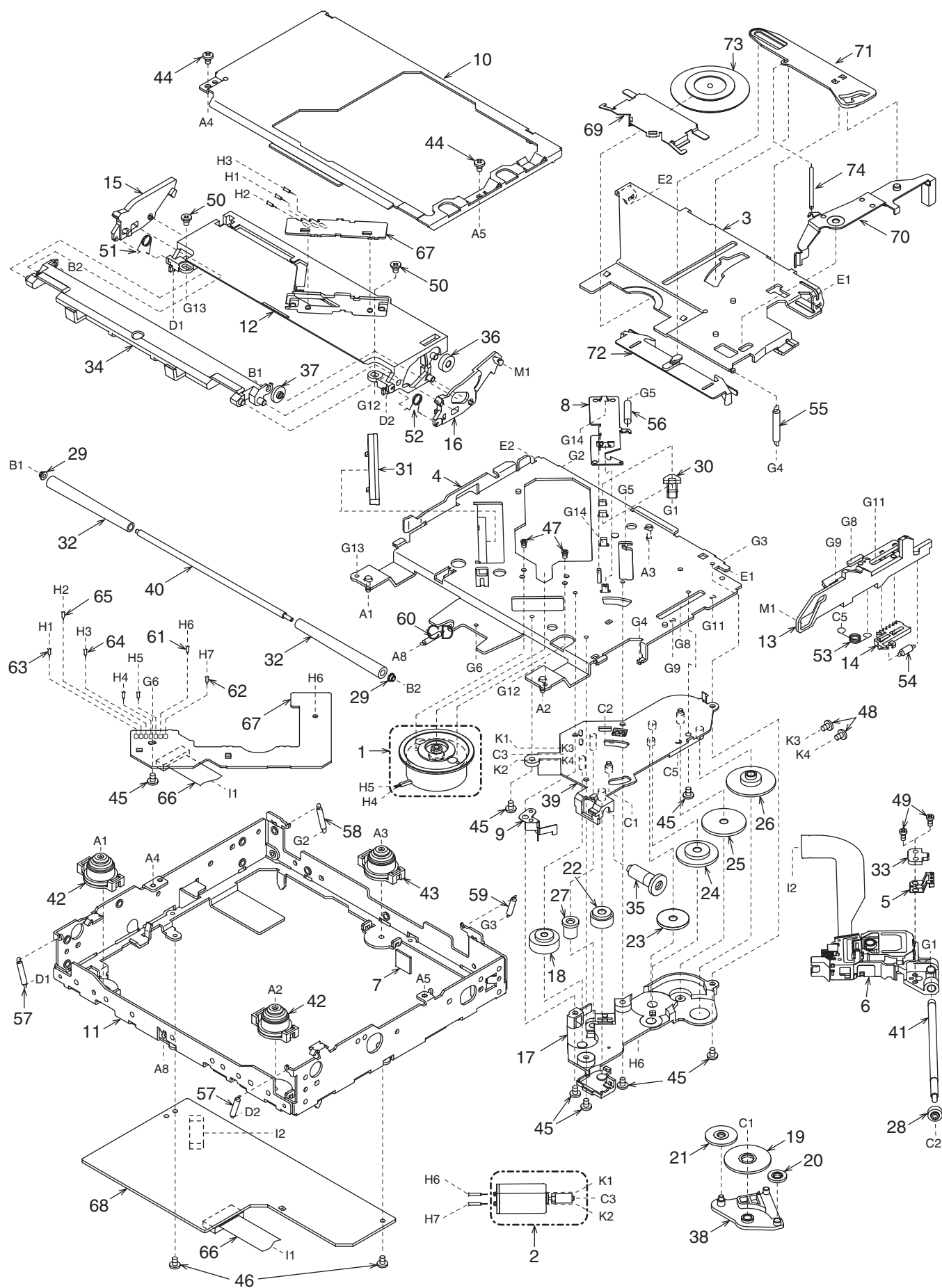
NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-523-700	DCP-ASSY	1
1-1	373-1045-01	DIAL-CVR	1
1-2	335-7392-00	FACE PANEL(L)	1
1-3	347-7507-00	DOUBLE FACE	1
1-4	347-7506-00	SURGE FILM	2
1-5	335-7401-01	LEVER CAP	1
1-6	716-0872-01	PAD SCREW(M1.7x6)	10
1-7	335-7457-00	LEVER INNER	1
1-8	335-7403-00	BASE LEVER	1
1-9	750-6794-00	SPRING(LEVER)	1
1-10	331-3945-00	LEVER HOLDER	1
1-11	331-3944-00	ARM COVER	1
1-12	335-7404-00	LEVER ARM	1
1-13	382-7232-00	BUTTON(RELEASE)	1
1-14	750-6720-00	SPRING (REL)	1
1-15	716-0872-12	PAD SCREW(M1.7x8)	4
1-16	335-7372-00	REAR-COVER	1
1-17	335-7349-00	ILLUMI PLATE(R)	1
1-18	370-6138-00	ESCUTCHEON	1
1-19	335-7347-00	ILLUMI PLATE(L)	1
1-20	335-7348-00	ILLUMI PLATE(M)	1
1-21	382-7226-01	BUTTON	1
1-22	382-7229-01	BUTTON	1
1-23	335-7391-00	FACE PANEL(R)	1
1-24	380-5608-00	KNOB	1
1-25	380-5609-00	KNOB CVR	1
1-26	345-5489-00	RUBBER RING	1
1-27	382-7230-01	BUTTON	1
1-28	382-7237-01	BUTTON	1
1-29	382-7231-01	BUTTON	1
1-30	382-7227-01	BUTTON	1
1-31	382-7233-01	BUTTON	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-32	382-7234-01	BUTTON	1
1-33	716-0872-20	PAD SCREW(M1.7X4)	1
1-34	347-7537-00	DOUBLE FACE	1
1-35	347-7509-00	SHADE	2
1-36	347-7508-00	SHADE	1
1-37	347-7531-00	FILM	2
1-38	347-7510-00	DOUBLE FACE	6
1-39	347-7576-00	SPACER	2
1-40	347-7575-00	SPACER	2
1-41	347-7159-00	CUSHION	2
1-42	347-7577-00	SPACER	2
1-43	347-6988-00	DOUBLE FACE	1
1-44	347-7540-00	REFLECTOR	2
1-45	347-7597-00	FILM	1
1-46	347-7539-00	SPACER	1
1-47	716-0872-11	PAD SCREW(M1.7X6)	1
1-48	331-3921-00	LCD COVER	1
1-49	379-1320-41	INDICATOR(LCD)	1
1-50	347-7371-00	FILM(BLACK)	1
1-51	347-7372-00	FILM(LCD)	1
1-52	345-5500-00	RUBBER CONNECTOR	1
1-53	335-7359-00	ILLUMI PLATE	1
1-54	347-7373-00	REFLECTOR	1
1-55	335-7358-00	LCD HOLDER	1
1-56	076-0708-02	PLUG	2
1-57	001-7076-90	DIODE	5
1-58	013-6312-50	SWITCH	18
1-59	-----	SWITCH PWB	1
1-60	060-4017-90	IR-RECEIVER	1
1-61	016-9900-85	ENCODER-SW	1
1-62	076-0616-00	PLUG	1

## Main Section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	346-0173-00	LEATHER SHEET	1	38	-----	MAIN PWB	1
2	335-7373-00	HOOK DCP	1	39	347-6341-00	E-SHEET	1
3	750-3454-00	SPRING	1	40	345-5312-00	CUSHION	1
4	341-1764-00	SHAFT	1	41	880-2090Z	TUNER	1
5	370-6142-00	INNER-ES	1	42	092-4000-51	ANT-RECEPT	1
6	382-7255-00	BUTTON	1	43	331-3567-00	CONNECTOR HOLDER	1
7	013-6312-50	SWITCH	1	44	074-1194-00	OUTLET SOCKET(13 P)	1
8	716-1764-01	PAD SCREW(M1.7x5)	1	45	051-2057-00	IC	1
9	074-1220-00	OUTLET SOCKET(16 P)	1	46	009-9006-70	CHOKE	1
10	074-1279-68	OUTLET SOCKET(18 P)	1	47	042-1447-00	ALUMI-ELE-C	1
11	335-7368-00	ILLUMI PLATE	1	48	331-3560-02	IC HOLDER	1
12	716-3546-01	DECORATIVE SCREW(M4.1x7)	3	49	331-3562-01	CONNECTOR HOLDER	1
13	331-3925-00	ARM-L	1	50	321-0969-00	CLAMP	1
14	716-1764-00	PAD SCREW(M1.7x5)	7	51	313-1867-00	HEAT SINK	1
15	750-3341-00	SPRING	1	52	855-5478-50	RCA-PIN-CORD	1
16	335-7369-00	HOOK LOCK	1	53	714-3006-81	MACHINE SCREW(M3x6)	11
17	013-7201-50	SWITCH	1	54	052-3947-00	MICOM	1
18	-----	SUB PWB	1	55	-----	ISO PWB	1
19	335-7370-00	DETECTOR HOOK	1	56	074-1285-00	OUTLET SOCKET(ISO)	1
20	335-7371-00	HOOK SLEEVE	1	57	060-0057-57	AUTO-FUSE(15 A)	1
21	331-3926-00	ARM-R	1	58	311-1859-02	LOWER CASE	1
22	780-2004-01	SCREW(M2x4)	1	59	286-6543-00	SETPLATE	1
23	613-0730-00	GEAR DAMPER	1	60	347-6880-01	INSULATOR	1
24	738-1722-17	PRECISION SCREW(M1.7x2.2)	3	61	780-2607-02	SCREW(M2.6x7)	2
25	750-6793-00	SPRING	1	62	816-2623-50	FLAT WIRE	1
26	331-3924-00	DCP-HOLDER	1	63	714-3004-81	MACHINE SCREW(M3x4)	3
27	335-7505-00	HOOK	1	64	714-2603-80	MACHINE SCREW(M2.6x3)	3
28	613-0757-00	FAN GEAR	1	65	331-3570-00	MECH-SUB-BRKT	1
29	291-0092-00	STICKER	1	66	331-3569-00	MECH-SUB-BRKT	1
30	290-8458-00	LABEL	1	67	929-0301-83	CD-MECH-MODULE	1
31	750-6783-00	SPRING	1	68	331-3427-00	MECH BRKT	1
32	001-7062-90	DIODE	2	69	731-3006-80	TAPTIGHT(M3x6)	3
33	345-5547-00	RUBBER	1	70	331-2744-00	STOPPER	1
34	051-3297-10	IC	1	71	303-0485-01	UPPER CASE	1
35	076-0648-18	PLUG(18 P)	1	72	313-1866-00	HEAT SINK	1
36	013-6103-00	TACT SWITCH	1	73	345-3799-20	RUBBER PART	6
37	074-1237-70	OUTLET SOCKET(20 P)	1				



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	SMA-182-100	SPD-MOTOR-ASSY	1	38	621-0723-20	IDLE CASE	1
2	SMA-183-100	POW-MOTOR-ASSY	1	39	621-0724-21	GEAR BASE	1
3	620-1022-26	CLAMPER LINK	1	40	622-1660-20	ROLLER SHAFT	1
4	966-0595-25	DRIVE-PLT-ASSY	1	41	624-0018-01	LEAD SCREW	1
5	966-0638-20	SH-RACK-ASSY	1	42	629-0086-20	DAMPER F	2
6	969-0065-31	PICK UP-ASSY	1	43	629-0087-20	DAMPER R	1
7	345-5476-20	CUSHION RUBBER	1	44	714-2003-81	MACHINE SCREW (M2x3)	2
8	620-1025-22	ID-LOCK PLATE	1	45	716-1507-00	SCREW (M2x3)	7
9	620-1026-21	SPRING PLATE	1	46	716-1670-00	SCREW (M2x4)	2
10	620-1028-24	UPPER CHASSIS	1	47	716-1733-00	SCREW (M1.7x2.3)	2
11	620-1585-21	LOWER SHASSIS-W	1	48	716-3551-00	SCREW (M1.4x2.5)	2
12	621-0598-27	UPPER GUIDE	1	49	716-3469-00	SCREW (phi1.7x4)	2
13	621-0600-26	SHIFT LEVER	1	50	716-3473-00	SCREW (M2x3)	2
14	621-1735-20	RACK	1	51	750-3465-21	ROLLER SPRING L	1
15	621-0602-22	LOCK ARM L	1	52	750-3466-20	ROLLER SPRING R	1
16	621-0603-25	LOCK ARM R	1	53	750-3467-21	SHIFT SPRING	1
17	621-0605-22	GEAR COVER	1	54	750-3468-20	RACK SPRING	1
18	621-0608-21	SECOND GEAR	1	55	750-3469-20	CLAMPER SPRING	1
19	621-0609-20	BASE GEAR	1	56	750-3470-20	ID-LOCK SPRING	1
20	621-0610-20	IDLE GEAR A	1	57	750-3472-21	DR-SPRING F	2
21	621-0611-20	IDLE GEAR B	1	58	750-3473-20	DR-SPRING RA	1
22	621-0612-21	ROLLER GEAR A	1	59	750-3474-20	DR-SPRING RB	1
23	621-0616-20	POWER GEAR A	1	60	750-3475-21	DR-SPRING C	1
24	621-0617-20	POWER GEAR B	1	61	803-4906-60	VINYL-COAT-WIRE(ORANGE)	1
25	621-0618-20	POWER GEAR C	1	62	816-2590-00	EXTENSION LEAD(GREEN)	1
26	621-0619-20	POWER GEAR D	1	63	816-2591-00	EXTENSION LEAD(YELLOW)	1
27	621-0620-20	THREAD GEAR A	1	64	816-2592-00	EXTENSION LEAD(BLUE)	1
28	621-0621-20	THREAD GEAR B	1	65	816-2593-00	EXTENSION LEAD(PURPLE)	1
29	621-0622-21	ROLLER SLEEVE	2	66	816-2624-50	FLAT WIRE	1
30	621-0623-23	LS-HOLDER	1	67	-----	LED PWB	1
31	621-0624-22	GUIDE RAIL	1	68	-----	CD PWB	1
32	621-0629-20	LOADING ROLLER	2	69	620-1023-23	CLAMPER PLATE	1
33	621-0709-20	SH-BASE	1	70	620-1721-20	SENSOR ARM	1
34	621-0718-21	ROLLER GUIDE	1	71	621-0626-21	STOPPER LINK	1
35	621-0719-20	ROLLER GEAR	1	72	621-0627-21	DISC STOPPER	1
36	621-0720-20	ROLLER GEAR C	1	73	621-0708-20	CLAMPER RING	1
37	621-0721-20	ROLLER GEAR D	1	74	750-3471-20	SENSOR SPRING	1

## ELECTRICAL PARTS LIST

### Main PWB (B1) section

Note) Several different parts of the same reference number are alternative parts.  
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT1	092-4000-51	ANT-RECEPT	C 28	168-1042-78	50V 0.1uF	C 111	168-1042-78	50V 0.1uF
BL1	880-2090Z	TUNER	C 31	166-1011-50	50V 100pF	C 112	187-1063-35	16V 10uF
C 1	166-2201-50	50V 22pF	C 34	168-1022-55	50V 1000pF	C 113	178-1052-78	1uF
C 3	166-2201-50	50V 22pF	C 35	166-1011-50	50V 100pF	C 114	168-1042-78	50V 0.1uF
C 4	166-2096-50	50V 2pF	C 36	187-1053-65	50V 1uF	C 116	187-1053-65	50V 1uF
C 7	168-1022-55	50V 1000pF	C 37	166-3311-50	50V 330pF	C 117	187-1053-65	50V 1uF
C 8	168-8222-55	50V 8200pF	C 40	168-3932-78	25V 0.039uF	C 123	168-1022-55	50V 1000pF
C 9	187-4763-35	16V 47uF	C 42	166-2211-50	50V 220pF	C 124	168-1022-55	50V 1000pF
C 10	166-1011-50	50V 100pF	C 44	187-4763-15	6.3V 47pF	C 125	168-1022-55	50V 1000pF
C 11	168-1032-55	50V 0.01uF	C 45	187-4753-55	35V 4.7pF	C 126	168-1022-55	50V 1000pF
C 12	168-1222-55	50V 1200pF	C 46	166-1011-50	50V 100pF	C 127	168-1022-55	50V 1000pF
C 13	168-2232-55	25V 0.022uF	C 47	168-1832-55	50V 0.018uF	C 128	168-1022-55	50V 1000pF
C 14	166-1801-50	50V 18pF	C 48	168-1832-55	50V 0.018uF	C 129	168-1022-55	50V 1000pF
C 15	166-1501-50	50V 15pF	C 55	168-1042-78	16V 0.1uF	C 130	168-1022-55	50V 1000pF
C 16	168-2232-55	25V 0.022uF	C 100	187-2263-35	16V 22uF	C 200	172-2231-15	50V 0.022uF
C 17	168-2232-55	25V 0.022uF	C 101	187-2263-35	16V 22uF	C 201	042-1447-00	16V 2200uF
C 21	168-2232-55	25V 0.022uF	C 102	187-2263-35	16V 22uF	C 203	187-1063-35	16V 10uF
C 23	166-4711-50	50V 470pF	C 103	187-2263-35	16V 22uF	C 205	187-4763-35	16V 47uF
C 24	187-1073-35	16V 100uF	C 105	178-2242-78	25V 0.22uF	C 206	187-1073-35	16V 100uF
C 25	187-4763-35	16V 47uF	C 106	178-2242-78	25V 0.22uF	C 207	187-1063-35	16V 10uF
C 26	168-1042-78	50V 0.1uF	C 107	178-2242-78	25V 0.22uF	C 208	187-2263-35	16V 22uF
C 27	187-1053-65	50V 1uF	C 108	178-2242-78	25V 0.22uF	C 209	187-2263-35	16V 22uF

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 210	187-3363-25	10V 33uF	D 112	001-4301-41	HZU7.5B2	Q 207	125-2041-93	RT1N241M
C 213	187-1073-35	16V 100uF	D 201	001-0592-61	1N5404	Q 207	125-2027-92	DTC124EUA
C 214	187-1073-15	6.3V 100uF	D 202	001-1310-00	KDS160	Q 208	125-0034-92	RT1P141M
C 215	187-1063-35	16V 10uF	D 203	001-0466-60	1A2	Q 213	125-2041-93	RT1N241M
C 216	042-1631-50	10V 100uF	D 204	001-1310-00	KDS160	Q 213	125-2027-92	DTC124EUA
C 219	166-1011-50	50V 100pF	D 205	001-1310-00	KDS160	Q 214	190-1602-00	2SA1602A
C 220	168-1042-78	50V 0.1uF	D 206	001-4301-26	HZU4.7B2	Q 215	125-2041-93	RT1N241M
C 222	166-1011-50	50V 100pF	D 207	001-1310-00	KDS160	Q 215	125-2027-92	DTC124EUA
C 223	166-1011-50	50V 100pF	D 208	001-0347-32	MA4056M	Q 216	125-2041-93	RT1N241M
C 300	168-4722-55	50V 4700pF	D 210	001-0466-61	1A4	Q 216	125-2027-92	DTC124EUA
C 301	168-4722-55	50V 4700pF	D 211	001-0466-61	1A4	Q 217	125-3005-90	KTA1273
C 302	187-2253-65	50V 2.2uF	D 212	001-0466-61	1A4	Q 220	190-1602-00	2SA1602A
C 303	187-2253-65	50V 2.2uF	D 216	001-1310-00	KDS160	Q 221	125-2041-93	RT1N241M
C 306	187-2253-65	50V 2.2uF	D 501	001-1310-00	KDS160	Q 221	125-2027-92	DTC124EUA
C 307	187-2253-65	50V 2.2uF	D 502	001-1310-00	KDS160	Q 222	190-1365-50	2SA1365
C 308	187-1063-35	16V 10uF	D 504	001-4301-43	HZU8.2B2	Q 222	191-1197-50	2SB1197K
C 309	187-1063-35	16V 10uF	D 505	001-4301-23	HZU4.3B2	Q 454	125-4012-90	KTD1304
C 310	187-1063-35	16V 10uF	D 600	001-1310-00	KDS160	Q 455	125-4012-90	KTD1304
C 311	187-1063-35	16V 10uF	D 601	001-1310-00	KDS160	Q 456	125-4012-90	KTD1304
C 312	168-4732-78	25V 0.047uF	D 602	001-7062-90	RBR1111C	Q 457	125-4012-90	KTD1304
C 313	168-4732-78	25V 0.047uF	D 801	001-1310-00	KDS160	Q 502	192-4155-49	2SC4155A
C 314	187-1053-65	50V 1uF	D 802	001-1310-00	KDS160	Q 503	125-2041-96	RT1N436M
C 454	187-2263-35	16V 22uF	IC 1	051-6201-90	LC72146M	Q 503	125-2027-95	DTC143ZUA
C 455	187-2263-35	16V 22uF	IC 101	051-2057-00	TB2906HQ	Q 505	125-0034-96	RT1P436M
C 456	187-2263-35	16V 22uF	IC 200	051-3297-10	BA4916-V2	Q 506	125-0034-96	RT1P436M
C 457	187-2263-35	16V 22uF	IC 302	051-3049-90	HA17558AF	Q 514	125-2041-96	RT1N436M
C 462	168-5612-55	25V 560pF	IC 501	051-5030-90	M61523FP	Q 514	125-2027-95	DTC143ZUA
C 463	168-5612-55	25V 560pF	IC 600	052-3947-00	M30622MGP-178GP	Q 601	125-2041-93	RT1N241M
C 464	168-5612-55	25V 560pF				Q 601	125-2027-92	DTC124EUA
C 465	168-5612-55	25V 560pF	IC 601	051-5437-08	S-80821ANMP	Q 602	125-2041-93	RT1N241M
C 500	187-2253-65	50V 2.2uF	IC 602	051-6600-58	HA12187FP	Q 602	125-2027-92	DTC124EUA
C 501	187-2253-65	50V 2.2uF	IC 603	051-5443-08	BD4850G	Q 603	190-1602-00	2SA1602A
C 502	187-2253-65	50V 2.2uF	IC 801	051-0350-93	NJM4558M	R 5	119-4721-15	1/16W4.7k ohm
C 505	187-2253-65	50V 2.2uF	IC 802	051-4616-90	PT2579S-SN	R 6	116-3311-15	1/4W 330 ohm
C 506	187-2253-65	50V 2.2uF	J 600	074-1194-00	13P	R 7	119-1231-15	1/16W 12k ohm
C 507	187-2253-65	50V 2.2uF	J 601	076-0648-18	18P	R 8	119-2711-15	1/16W 270 ohm
C 508	187-1063-35	16V 10uF	J 900	074-1237-70	20P	R 10	119-2221-15	1/16W 2.2k ohm
C 509	187-1073-35	16V 100uF	L 1	010-2003-04	30uH(Variable)	R 11	119-2221-15	1/16W 2.2k ohm
C 510	168-1042-78	50V 0.1uF	L 3	010-6026-50	220uH	R 12	119-1021-15	1/16W 1k ohm
C 512	166-2201-50	50V 22pF CH	L 6	010-6026-50	220uH	R 13	119-1031-15	1/16W 10k ohm
C 516	166-2201-50	50V 22pF CH	L 200	010-2230-64	2.2uH	R 15	119-1021-15	1/16W 1k ohm
C 518	166-2201-50	50V 22pF CH	L 507	010-3105-62	1k ohm 100MHz	R 16	119-5621-15	1/16W 5.6k ohm
C 519	166-2201-50	50V 22pF CH	L 508	010-3105-62	1k ohm 100MHz	R 17	119-5631-15	1/16W 56k ohm
C 525	166-1011-50	50V 100pF	L 509	010-3105-62	1k ohm 100MHz	R 18	119-1021-15	1/16W 1K ohm
C 533	168-1022-55	50V 1000pF	L 510	010-3105-62	1k ohm 100MHz	R 19	119-1021-15	1/16W 1K ohm
C 537	187-2263-35	16V 22uF	L 601	010-3100-66	2.2uH	R 20	119-1021-15	1/16W 1K ohm
C 600	168-1032-55	50V 0.01F	L 602	010-3100-66	2.2uH	R 21	119-8201-15	1/16W 82 ohm
C 601	042-0650-00	5.5V 0.1uF	L 603	010-3100-66	2.2uH	R 22	119-1041-15	1/16W 100k ohm
C 603	168-1032-55	50V 0.01uF	L 605	010-3100-66	2.2uH	R 23	119-3311-15	1/16W 330 ohm
C 605	042-1577-00	6.3V 100uF	L 606	010-3100-66	2.2uH	R 24	119-5631-15	1/16W 56k ohm
C 606	168-1022-55	50V 1000pF	L 607	010-3100-66	2.2uH	R 29	119-1021-15	1/16W 1k ohm
C 607	168-1032-55	50V 0.01uF	L 610	010-3105-62	1k ohm 100MHz	R 32	119-1521-15	1/4WS 1.5k ohm
C 608	168-1032-55	50V 0.01uF	L 611	010-3105-62	1k ohm 100MHz	R 33	119-1031-15	1/16W 10k ohm
C 609	168-4732-78	25V 0.047uF	Q 3	198-0669-00	2SK669	R 34	119-1031-15	1/16W 10k ohm
C 612	187-1063-35	16V 10uF	Q 4	125-2041-93	RT1N241M	R 36	119-1031-15	1/16W 10k ohm
C 619	168-1022-55	50V 1000pF	Q 4	125-2027-92	DTC124EUA	R 37	119-1521-15	1/4WS 1.5k ohm
C 620	168-1022-55	50V 1001pF	Q 5	192-3440-50	2SC3440	R 40	119-1031-15	1/16W 10k ohm
C 622	168-1022-55	50V 1002pF	Q 6	125-0034-93	RT1P241M	R 100	119-1031-15	1/16W 10k ohm
C 801	168-2232-55	25V 0.022uF	Q 7	190-1602-00	2SA1602A	R 101	119-0000-05	1/16W 0 ohm JW
C 802	166-8211-50	50V 820pF	Q 8	190-1602-00	2SA1602A	R 102	119-0000-05	1/16W 0 ohm JW
C 803	166-6811-50	50V 680pF	Q 9	125-2041-92	RT1N141M	R 103	119-1221-15	1/16W 1.2k ohm
C 804	166-5611-50	50V 560pF	Q 9	125-2027-91	DTC114EUA	R 106	119-4731-15	1/16W 47k ohm
C 805	166-3311-50	50V 330pF	Q 10	192-4155-49	2SC4155A	R 501	119-1021-15	1/16W 1k ohm
C 806	187-2253-65	50V 2.2uF	Q 200	125-4011-90	KTD863	R 110	119-4721-15	1/16W 4.7k ohm
C 808	168-2232-55	25V 0.022uF	Q 201	125-2041-96	RT1N436M	R 111	119-4721-15	1/16W 4.7k ohm
C 809	168-1032-55	50V 0.01uF	Q 201	125-2027-95	DTC143ZUA	R 112	119-4721-15	1/16W 4.7k ohm
C 810	166-4701-50	50V 47pF	Q 202	190-1602-00	2SA1602A	R 113	119-4721-15	1/16W 4.7k ohm
C 811	166-5601-50	50V 56pF	Q 203	192-4155-49	2SC4155A	R 200	119-1231-15	1/16W 12k ohm
C 812	166-1007-50	50V 10pF	Q 204	190-1602-00	2SA1602A	R 201	119-1541-15	1/16W 150k ohm
C 813	187-4763-15	6.3V 47pF	Q 205	193-1858-50	2SD1858 Q,R	R 202	119-3321-15	1/16W 3.3k ohm
D 111	001-4301-41	HZU7.5B2	Q 206	193-1858-50	2SD1858 Q,R	R 203	119-3311-15	1/16W 330 ohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 204	119-1831-15	1/16W 18k ohm	R 320	119-8221-15	1/16W 8.2k ohm	R 620	119-1841-15	1/16W 180k ohm
R 205	119-1031-15	1/16W 10k ohm	R 454	119-2231-15	1/16W 22k ohm	R 622	119-2231-15	1/16W 22k ohm
R 206	119-1031-15	1/16W 10k ohm	R 455	119-2231-15	1/16W 22k ohm	R 624	119-3311-15	1/16W 330 ohm
R 207	119-1021-15	1/16W 1k ohm	R 456	119-2231-15	1/16W 22k ohm	R 625	119-1521-15	1/16W 1.5k ohm
R 208	119-4731-15	1/16W 47k ohm	R 457	119-2231-15	1/16W 22k ohm	R 626	119-1011-15	1/16W 100 ohm
R 209	119-1531-15	1/16W 15k ohm	R 462	119-3311-15	1/16W 330 ohm	R 627	119-1811-15	1/16W 180 ohm
R 210	119-1031-15	1/16W 10k ohm	R 463	119-3311-15	1/16W 330 ohm	R 628	119-1811-15	1/16W 180 ohm
R 211	119-4731-15	1/16W 47k ohm	R 464	119-3311-15	1/16W 330 ohm	R 629	119-1811-15	1/16W 180 ohm
R 213	116-2291-15	1/4WS 2.2 ohm	R 465	119-3311-15	1/16W 330 ohm	R 630	119-1811-15	1/16W 180 ohm
R 214	116-2291-15	1/4WS 2.2 ohm	R 468	119-1021-15	1/16W 1k ohm	R 631	119-2711-15	1/16W 270 ohm
R 215	116-1511-15	1/4WS 150 ohm	R 469	119-1021-15	1/16W 1k ohm	R 633	119-2221-15	1/16W 2.2k ohm
R 220	119-1221-15	1/4WS 1.2k ohm	R 500	119-1021-15	1/16W 1k ohm	R 634	119-2221-15	1/16W 2.2k ohm
R 221	119-1031-15	1/16W 10k ohm	R 501	119-1021-15	1/16W 1k ohm	R 635	119-1041-15	1/16W 100k ohm
R 222	119-2221-15	1/16W 2.2k ohm	R 502	119-1021-15	1/16W 1k ohm	R 637	119-4721-15	1/16W 4.7k ohm
R 223	119-2221-15	1/16W 2.2k ohm	R 503	119-1021-15	1/16W 1k ohm	R 638	119-4731-15	1/16W 47k ohm
R 225	119-1031-15	1/16W 10k ohm	R 504	119-4721-15	1/16W 4.7k ohm	R 639	119-4731-15	1/16W 47k ohm
R 226	116-1221-15	1/4WS 1.2k ohm	R 505	119-4721-15	1/16W 4.7k ohm	R 641	119-1021-15	1/16W 1k ohm
R 229	116-1521-15	1/4WS 1.5k ohm	R 522	119-1021-15	1/16W 1k ohm	R 642	119-1021-15	1/16W 1k ohm
R 230	119-1031-15	1/16W 10k ohm	R 523	119-8221-15	1/16W 8.2k ohm	R 643	119-2711-15	1/16W 270 ohm
R 231	119-3321-15	1/16W 3.3k ohm	R 524	119-2231-15	1/16W 22k ohm	R 801	119-1231-15	1/16W 12k ohm
R 232	119-1031-15	1/16W 10k ohm	R 526	119-1021-15	1/16W 1k ohm	R 802	119-1031-15	1/16W 10k ohm
R 233	119-1021-15	1/16W 1k ohm	R 532	119-1021-15	1/16W 1k ohm	R 803	119-3321-15	1/16W 3.3k ohm
R 308	032-0140-64	1/10W 43k ohm	R 544	119-3311-15	1/16W 330 ohm	R 804	119-3331-15	1/16W 33k ohm
R 309	032-0140-64	1/10W 43k ohm	R 600	119-3321-15	1/16W 3.3k ohm	R 805	119-1041-15	1/16W 100k ohm
R 310	032-0140-64	1/10W 43k ohm	R 601	119-4731-15	1/16W 47k ohm	R 806	119-2211-15	1/16W 220 ohm
R 311	032-0140-64	1/10W 43k ohm	R 602	119-4721-15	1/16W 4.7k ohm	S 600	013-6103-00	RESET
R 312	032-0140-89	1/10W 47k ohm	R 603	116-6801-15	1/4WS 68 ohm	SUP1	060-0122-91	DSP-141N-S00B
R 313	032-0140-89	1/10W 47k ohm	R 604	119-1031-15	1/16W 10k ohm	T 201	009-9006-70	CHOKE
R 314	032-0140-89	1/10W 47k ohm	R 605	119-1031-15	1/16W 10k ohm	VR101	012-4431-13	470K
R 315	032-0140-89	1/10W 47k ohm	R 606	119-5621-15	1/16W 5.6k ohm	X 2	061-9013-00	7.2MHz
R 316	119-1041-15	1/16W 100k ohm	R 615	119-4721-15	1/16W 4.7k ohm	X 601	060-1533-90	10MHz
R 317	119-1021-15	1/16W 1k ohm	R 616	119-4721-15	1/16W 4.7k ohm	X 801	061-9011-00	4.332MHZ
R 318	119-1021-15	1/16W 1k ohm	R 617	119-1041-15	1/16W 100k ohm	PWB	039-2632-00	PWB(WITHOUT COMPONENT)
R 319	119-1041-15	1/16W 100k ohm	R 619	119-1031-15	1/16W 10k ohm			

#### SUB PWB (B2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D 800	001-7062-90	EJECT	S 801	013-6312-50	EJECT
J 701	074-1279-68	18P	SW800	013-7201-50	DCP DET
J 703	074-1220-00	16P	PWB	039-2634-00	PWB(WITHOUT COMPONENT)
R 621	119-1521-15	1/16W 1.5k ohm			

#### ISO PWB (B3) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
J 201	074-1285-00	ISO	PWB	039-1400-30	PWB(WITHOUT COMPONENT)
FUSE	060-0057-57	AUTO FUSE(15A)			

#### Switch PWB (B4) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 702	168-4732-78	25V 0.047uF	D 728	001-4301-41	HZU7.5B2	R 720	119-3311-15	1/16W 330 ohm
C 703	168-4732-78	25V 0.047uF	D 729	001-4301-41	HZU7.5B2	R 721	119-1031-15	1/16W 10k ohm
C 704	042-0423-97	16V 10uF	D 730	001-4301-41	HZU7.5B2	R 722	119-3311-15	1/16W 330 ohm
C 705	042-0423-97	16V 10uF	IC 701	051-6066-00	NJU6535	R 723	119-1031-15	1/16W 10k ohm
C 706	168-4732-78	25V 0.047uF	IR 701	060-4017-90	RS-671	R 725	119-1031-15	1/16W 10k ohm
D 706	001-7076-90	DIODE	LCD702	379-1320-41	INDICATOR(LCD)	R 726	119-1031-15	1/16W 10k ohm
D 708	001-7076-90	DIODE	P 701	076-0616-00	PLUG	R 727	119-1031-15	1/16W 10k ohm
D 709	001-7076-90	DIODE	Q 703	192-3440-50	2SC3440	R 728	119-1031-15	1/16W 10k ohm
D 713	001-4301-41	HZU7.5B2	Q 704	192-3440-50	2SC3440	R 752	119-4711-15	1/16W 470 ohm
D 714	001-4301-41	HZU7.5B2	Q 705	190-1602-00	2SA1602A	R 753	119-5611-15	1/16W 560 ohm
D 715	001-4301-41	HZU7.5B2	Q 706	192-4155-49	2SC4155A	R 754	119-5611-15	1/16W 560 ohm
D 716	001-4301-41	HZU7.5B2	Q 710	190-1365-50	2SA1365	R 756	119-8211-15	1/16W 820 ohm
D 717	001-4301-41	HZU7.5B2	Q 710	191-1197-50	2SB1197K	R 758	119-8211-15	1/16W 820 ohm
D 720	001-7076-90	DIODE	Q 711	192-4155-49	2SC4155A	R 759	119-8211-15	1/16W 820 ohm
D 721	001-7076-90	DIODE	R 701	119-1031-15	1/16W 10k ohm	R 760	119-3311-15	1/16W 330 ohm
D 722	001-4301-41	HZU7.5B2	R 702	119-1011-15	1/16W 100 ohm	R 761	119-3311-15	1/16W 330 ohm
D 723	001-4301-41	HZU7.5B2	R 703	119-1021-15	1/16W 1k ohm	R 762	119-1031-15	1/16W 10k ohm
D 724	001-4301-41	HZU7.5B2	R 704	119-1011-15	1/16W 100 ohm	R 763	119-1021-15	1/16W 1k ohm
D 725	001-4301-41	HZU7.5B2	R 705	119-1241-15	1/16W 120k ohm	R 764	119-1031-15	1/16W 10k ohm
D 726	001-4301-41	HZU7.5B2	R 706	119-2221-15	1/16W 2.2k ohm	R 765	119-6811-15	1/16W 680 ohm
D 727	001-4301-41	HZU7.5B2	R 708	119-1011-15	1/16W 100 ohm	R 768	119-4711-15	1/16W 470 ohm

REF No.	PART No.	DESCRIPTION
R 773	119-8211-15	1/16W 820 ohm
R 790	119-4711-15	1/16W 470 ohm
R 791	119-5611-15	1/16W 560 ohm
S 701	013-6312-50	SWITCH
S 702	013-6312-50	SWITCH
S 704	013-6312-50	SWITCH
S 705	013-6312-50	SWITCH
S 706	013-6312-50	SWITCH

REF No.	PART No.	DESCRIPTION
S 707	013-6312-50	SWITCH
S 708	013-6312-50	SWITCH
S 709	013-6312-50	SWITCH
S 711	013-6312-50	SWITCH
S 712	013-6312-50	SWITCH
S 713	013-6312-50	SWITCH
S 714	013-6312-50	SWITCH
S 715	013-6312-50	SWITCH

REF No.	PART No.	DESCRIPTION
S 716	013-6312-50	SWITCH
S 717	013-6312-50	SWITCH
S 718	013-6312-50	SWITCH
S 720	013-6312-50	SWITCH
S 721	013-6312-50	SWITCH
VR720	016-9900-85	ENCODER-SW
PWB	039-2633-00	PWB(WITHOUT COMPONENT)

CD PWB (B5) section: 929-0301-83

REF No.	PART No.	DESCRIPTION
C 1	168-1042-78	16V 0.1uF
C 4	168-1042-78	16V 0.1uF
C 5	046-1032-78	0.01uF
C 9	046-4722-58	4700pF
C 10	045-1011-50	100pF
C 13	168-1042-78	16V 0.1uF
C 16	168-1042-78	16V 0.1uF
C 17	046-1032-78	0.01uF
C 18	178-1052-78	1uF
C 19	046-1032-78	0.01uF
C 20	168-1042-78	16V 0.1uF
C 21	042-0595-53	4V 220uF
C 22	168-1042-78	16V 0.1uF
C 23	168-1042-78	16V 0.1uF
C 24	046-1032-78	0.01uF
C 25	045-8097-50	8pF
C 26	045-8097-50	8pF
C 27	042-0416-52	10V 10uF TAN
C 28	046-1032-78	0.01uF
C 29	168-1042-78	16V 0.1uF
C 30	045-1201-50	12pF
C 31	168-1042-78	16V 0.1uF
C 32	046-1032-78	0.01uF
C 33	046-1032-78	0.01uF
C 34	046-1032-78	0.01uF
C 35	046-1022-58	1000pF
C 102	163-1073-35	16V100uF
C 103	046-4722-58	4700pF
C 104	046-1032-78	0.01uF
C 105	168-1042-78	16V 0.1uF
C 106	168-1042-78	16V 0.1uF
C 107	042-0416-52	10V10uF TAN
C 108	168-1042-78	16V 0.1uF
C 109	168-1042-78	16V 0.1uF
C 110	168-1042-78	16V 0.1uF
C 111	168-1042-78	16V 0.1uF
C 112	168-4732-78	0.047uF
C 113	168-4732-78	0.047uF
C 114	168-1042-78	16V 0.1uF
C 115	045-4701-50	47pF
C 116	046-4712-58	470pF
C 117	046-4712-58	470pF
C 118	168-1042-78	16V 0.1uF
C 119	168-1042-78	16V 0.1uF
C 120	046-1532-78	0.015uF
C 121	046-6822-58	6800pF
C 122	168-1042-78	16V 0.1uF
C 123	046-1032-78	0.01uF
C 126	046-3332-78	0.033uF
C 127	046-4722-58	4700pF
C 130	168-1042-78	16V 0.1uF
C 131	046-1522-58	1500pF
C 132	168-1042-78	16V 0.1uF
C 133	046-1532-78	0.015uF

REF No.	PART No.	DESCRIPTION
C 134	168-1042-78	16V 0.1uF
C 135	045-6801-50	50V 68pF
C 136	178-1052-78	1uF
C 138	168-1042-78	16V 0.1uF
C 139	168-1042-78	16V 0.1uF
C 140	046-6812-58	680pF
C 142	178-1052-78	1uF
C 144	042-0560-85	6.3V 100uF
C 145	168-1042-78	16V 0.1uF
C 146	168-1042-78	16V 0.1uF
C 147	178-1052-78	1uF
C 148	042-0595-53	4V 220uF
C 149	163-1073-35	16V100uF
C 150	168-1042-78	16V 0.1uF
C 151	178-1052-78	1uF
C 200	178-1052-78	1uF
CCT 1	050-0145-54	1/16W 47kohm x4
CCT 2	050-0145-58	2.2k ohm x 4
CCT 3	050-0140-63	1/32W 47kohm x4J
CCT101	050-0140-68	1/32W 3.3kohm x4J
D 1	001-2610-90	RB480KTL
D 2	001-2610-90	RB480KTL
D 3	001-2610-90	RB480KTL
D 4	001-2610-90	RB480KTL
D 5	001-2610-90	RB480KTL
D 6	001-2610-90	RB480KTL
D 101	001-0367-91	1SS226
IC 1	051-7518-18	SN74LVC139APWR
IC 2	051-3315-90	TPS76316DBVR
IC 3	051-7239-38	SN74AHCT08PWR
IC 5	051-5441-08	BD4828G-TR
IC 6	051-6700-00	TMS320DA140
IC 10	052-5055-33	MBM29DL800B-A90PFTN
IC 11	051-6919-08	NJU6391PE
IC 12	051-7221-58	SN74AHC1G04-HDCKR
IC 13	051-7280-38	TC7SU04FU-TE85L
IC 14	051-7280-38	TC7SU04FU-TE85L
IC 101	051-6069-08	FAN8047G3
IC 102	051-6399-00	TC94A15F
J 1	074-1138-65	15P
J 2	074-1138-60	10P
J 3	074-1237-70	20P
Q 1	131-1188-50	2SB1188PQR
Q 2	125-2004-92	RN1402
Q 101	131-1188-50	2SB1188PQR
Q 102	131-1188-50	2SB1188PQR
R 1	033-4721-15	1/10W 4.7k ohm
R 2	033-1041-15	1/10W 100k ohm
R 3	033-1041-15	1/10W 100k ohm
R 4	033-1031-15	1/10W 10k ohm
R 5	033-2231-15	1/10W 22k ohm

REF No.	PART No.	DESCRIPTION
R 6	033-3911-15	1/10W 390 ohm
R 7	033-4731-15	1/10W 47k ohm
R 8	033-1051-15	1/10W 1M ohm
R 9	033-3311-15	1/10W 330 ohm
R 12	033-4731-15	1/10W 47k ohm
R 13	033-1041-15	1/10W 100k ohm
R 14	033-4721-15	1/10W 4.7k ohm
R 15	033-4721-15	1/10W 4.7k ohm
R 16	033-1021-15	1/10W 1k ohm
R 17	033-1021-15	1/10W 1k ohm
R 19	033-4731-15	1/10W 47k ohm
R 20	033-4731-15	1/10W 47k ohm
R 23	033-2211-15	1/10W 220 ohm
R 24	033-4731-15	1/10W 47k ohm
R 28	033-6841-15	1/10W 680k ohm
R 29	033-6841-15	1/10W 680k ohm
R 30	033-1041-15	1/10W 100k ohm
R 31	033-1031-15	1/10W 10k ohm
R 32	033-1031-15	1/10W 10k ohm
R 33	033-1031-15	1/10W 10k ohm
R 34	033-6831-15	1/10W 68k ohm
R 35	033-6831-15	1/10W 68k ohm
R 36	033-3311-15	1/10W 330 ohm
R 43	033-4731-15	1/10W 47k ohm
R 44	033-4731-15	1/10W 47k ohm
R 45	033-4731-15	1/10W 47k ohm
R 101	033-1231-15	1/10W 12k ohm
R 102	033-3321-15	1/10W 3.3k ohm
R 103	033-3331-15	1/10W 33k ohm
R 104	033-4731-15	1/10W 47k ohm
R 105	033-4731-15	1/10W 47k ohm
R 106	033-2211-15	1/10W 220 ohm
R 107	033-2211-15	1/10W 220 ohm
R 108	033-1021-15	1/10W 1k ohm
R 109	033-1021-15	1/10W 1k ohm
R 110	033-4731-15	1/10W 47k ohm
R 115	033-0000-05	1/10W 0 ohm
R 116	033-5621-15	1/10W 5.6k ohm
R 117	033-4731-15	1/10W 47k ohm
R 118	033-3341-15	1/10W 330k ohm
R 119	033-2231-15	1/10W 22k ohm
R 120	033-2231-15	1/10W 22k ohm
R 121	117-1001-15	1/10W 10 ohm
R 122	033-2211-15	1/10W 220 ohm
R 123	117-6811-15	1/10W 680 ohm
R 124	032-0162-50	1/10W 0.51 ohm
R 126	033-1021-15	1/10W 1k ohm
R 127	033-1021-15	1/10W 1k ohm
R 130	033-1051-15	1/10W 1M ohm
TM101	073-0768-90	TERMINAL
X 1	061-3534-90	16.92MHz
PWB	039-2429-21	PWB(WITHOUT COMPONENT)

LED PWB (B6) section: 929-0301-83

REF No.	PART No.	DESCRIPTION
D 11	001-7058-90	AN1105W-RR
D 12	001-7058-90	AN1105W-RR
J 4	074-1138-60	10P

REF No.	PART No.	DESCRIPTION
Q 11	060-4015-90	PS1192H
Q 12	060-4015-90	PS1192H
S 1	013-7414-50	CHUCKING

REF No.	PART No.	DESCRIPTION
S 2	013-7413-50	LIMIT
PWB	039-1944-21	PWB(WITHOUT COMPONENT)

**DX558RMP**

### Switch PWB(B4) section



**Caution:**  
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.  
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.



TO J703 OF SUB PWB (B2)  
PAGE 20

CD PWB(B5) / LED PWB(B6) section

IC Q  
Q101  
Q2  
IC1  
IC101

J1

IC101

IC102

IC103

IC104

IC105

IC106

IC107

IC108

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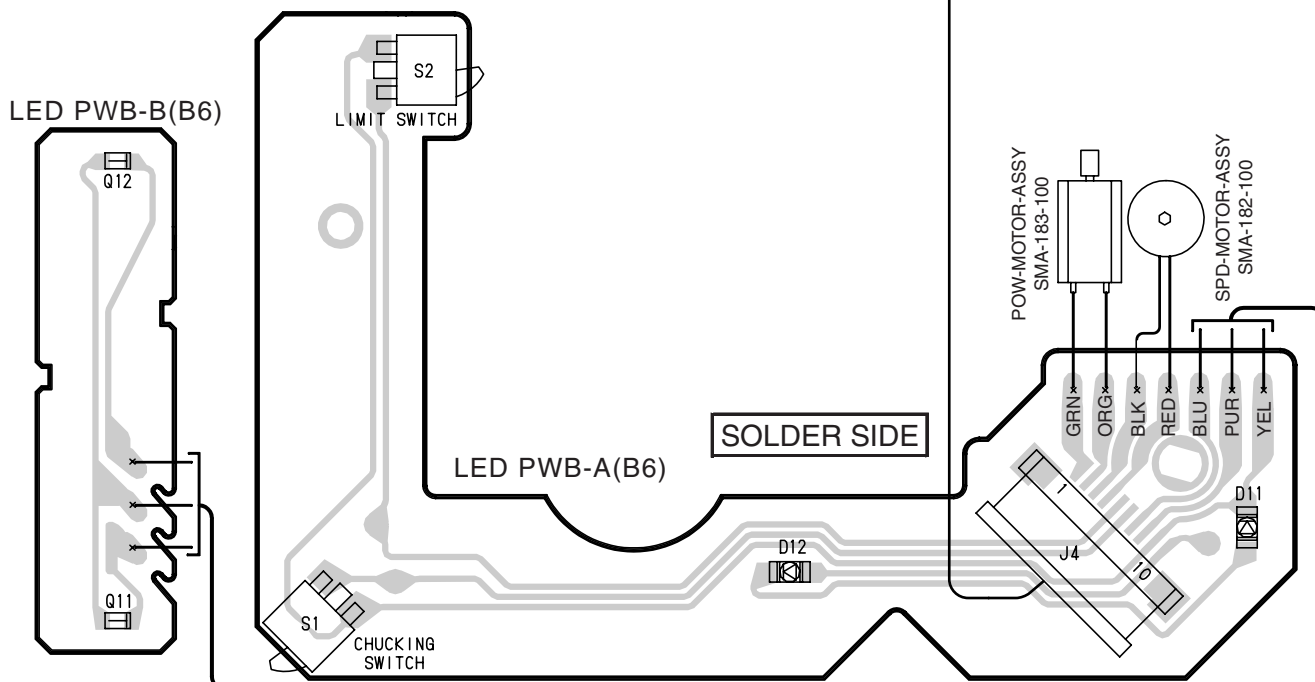
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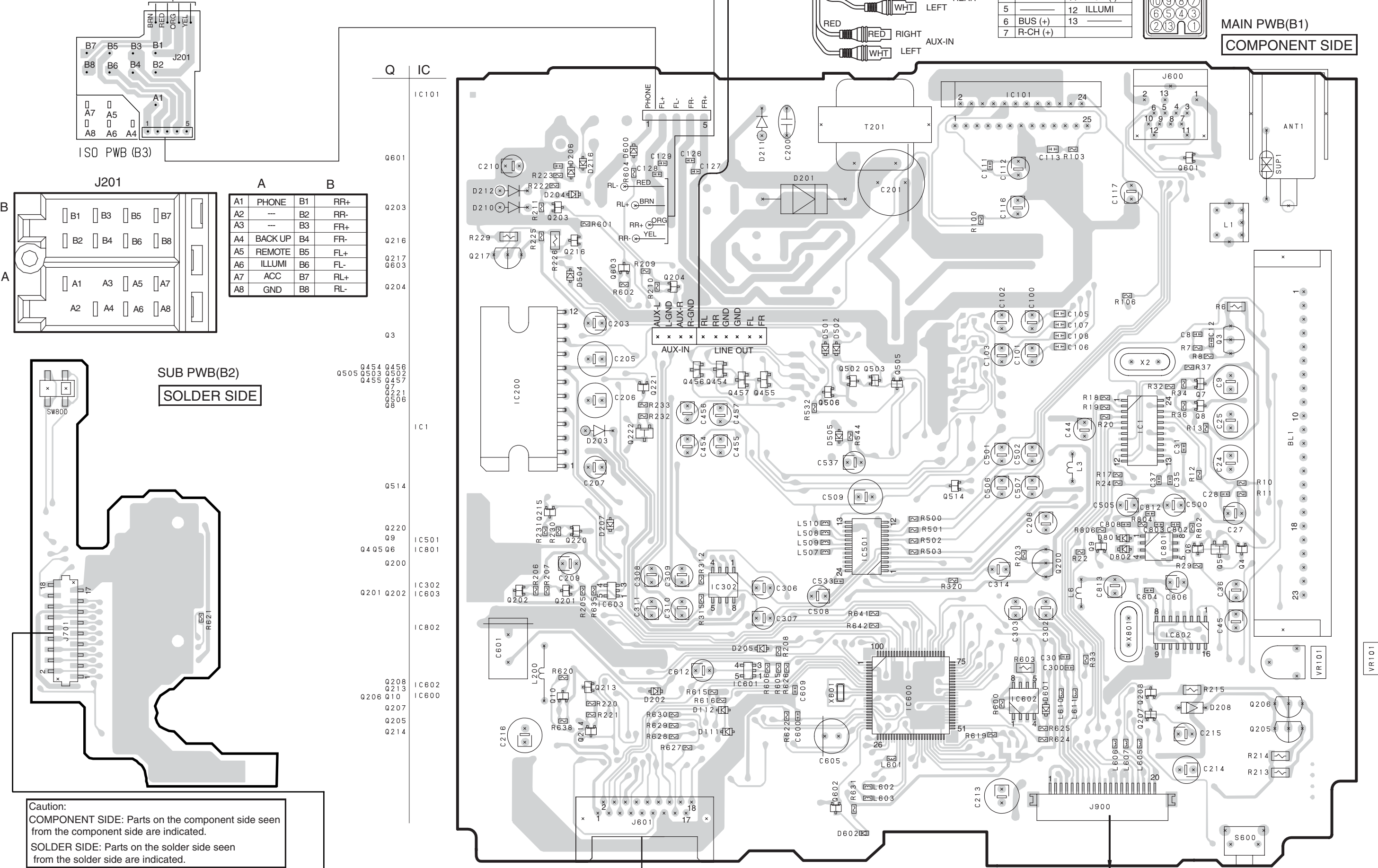


PRINTED WIRING BOARD 3/4

Main PWB(B1) section1/2

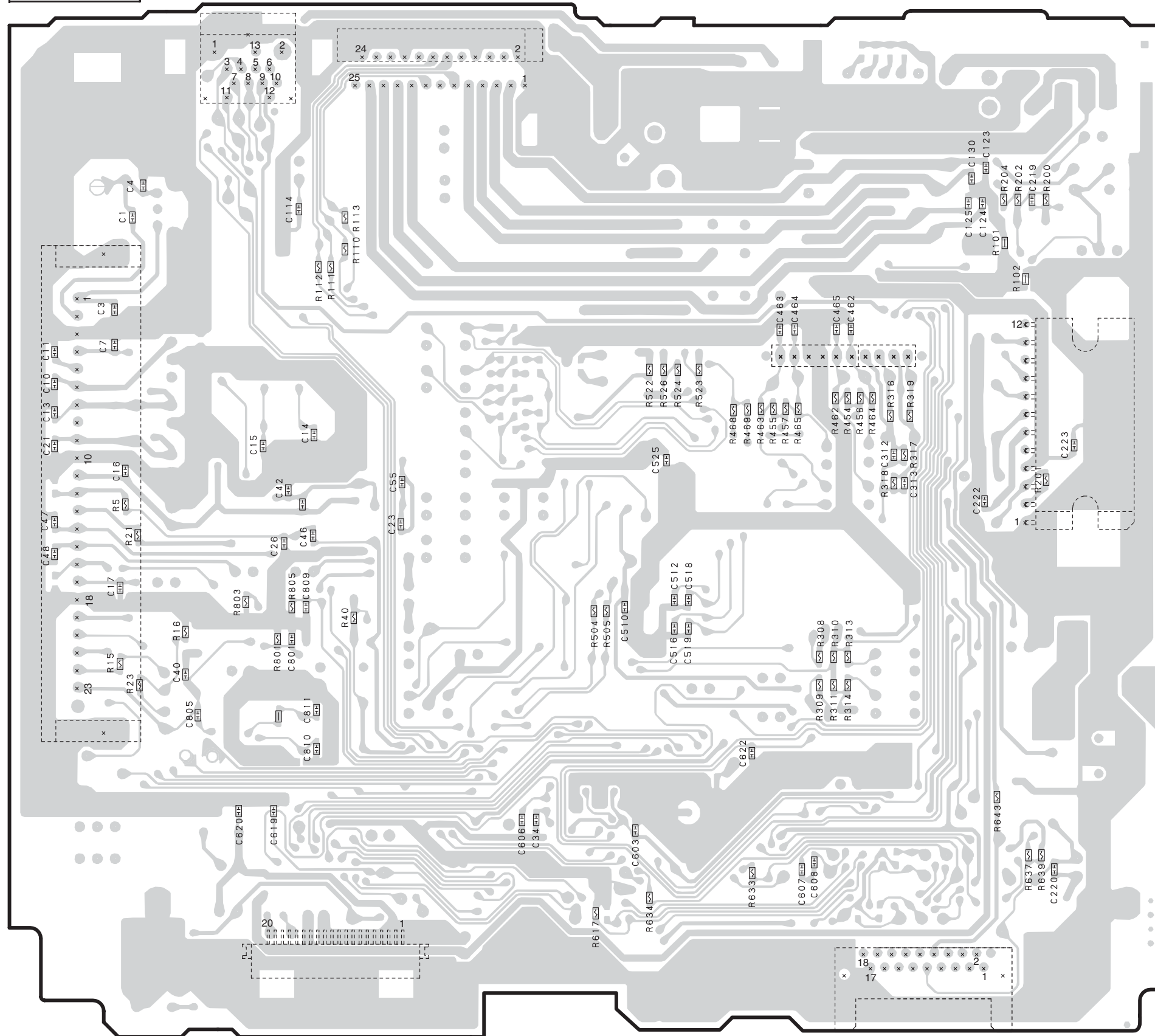
Sub PWB(B2) section1/2

ISO PWB(B3) section



## Main PWB(B1) section 2/2Sub PWB(B2) section 2/2

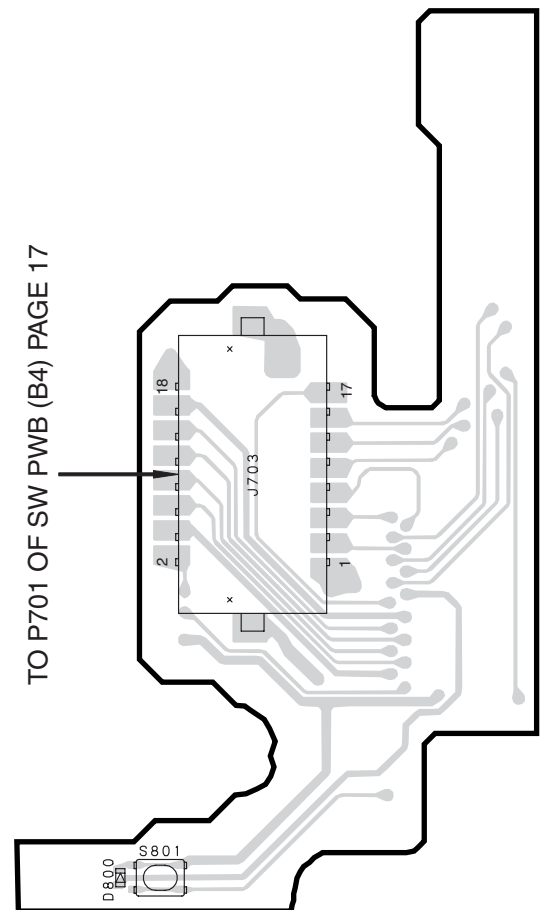
SOLDER SIDE



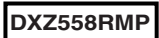
**Caution:**  
**COMPONENT SIDE:** Parts on the component side seen from the component side are indicated.  
**SOLDER SIDE:** Parts on the solder side seen from the solder side are indicated.

## COMPONENT SIDE

TO P701 OF SW PWB (B4) PAGE 17



## Sub PWB(B2) section



## Main PWB(B1) section 2/4



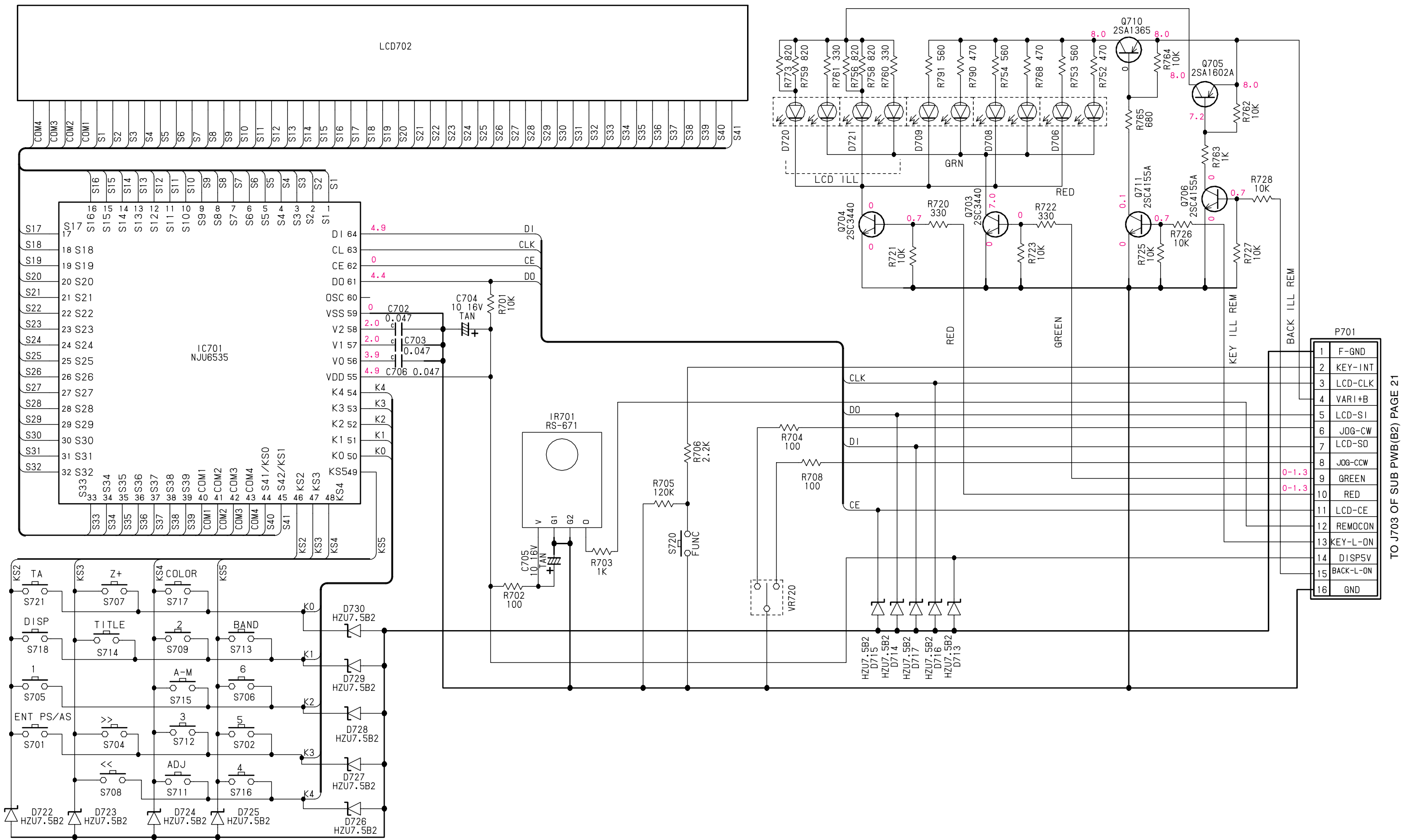
## Main PWB(B1) section 3/4



Main PWB(B1) section 4/4  
ISO PWB(B3) section

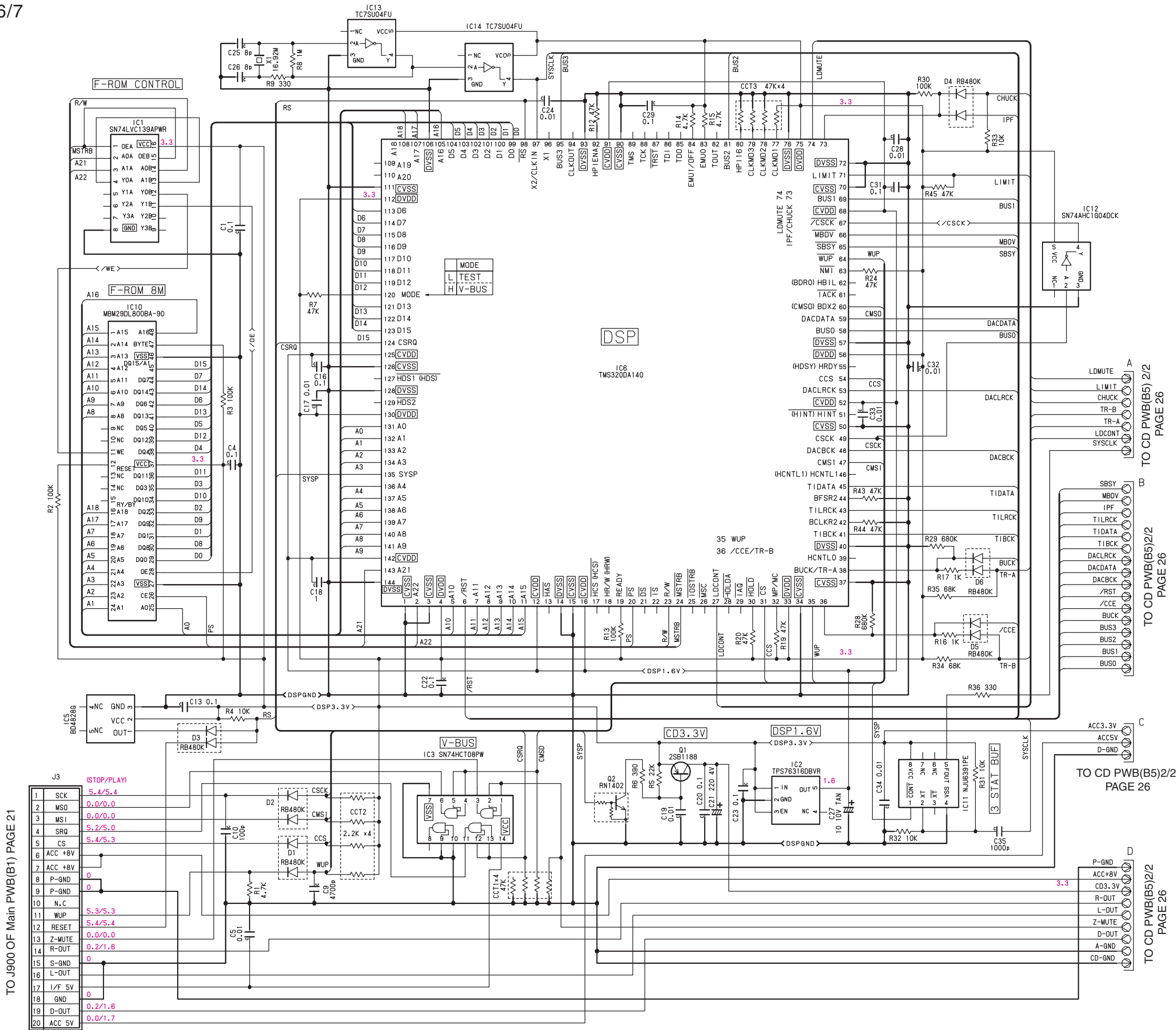


CIRCUIT DIAGRAM 5/7  
Switch PWB (B4) section



TO J703 OF SUB PWB(B2) PAGE 21

CIRCUIT DIAGRAM 6/7  
CD PWB(B5) section 1/2



CD PWB (B5) section 2/2  
LED PWB(B6) section

